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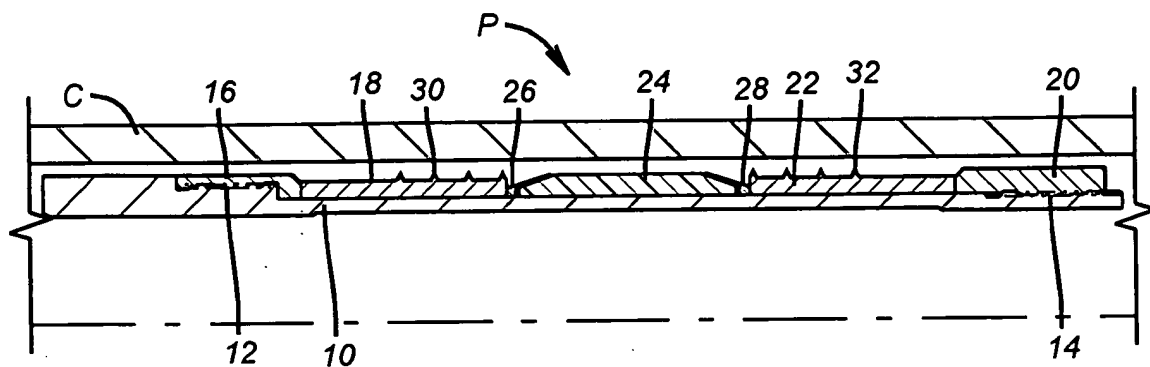


FIG. 1

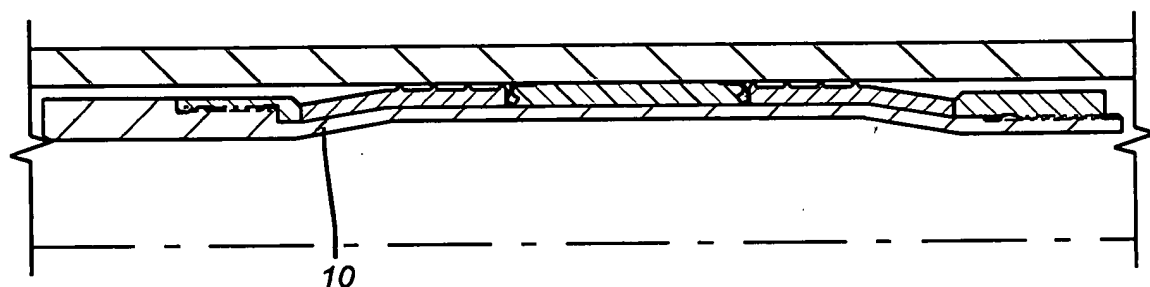


FIG. 2

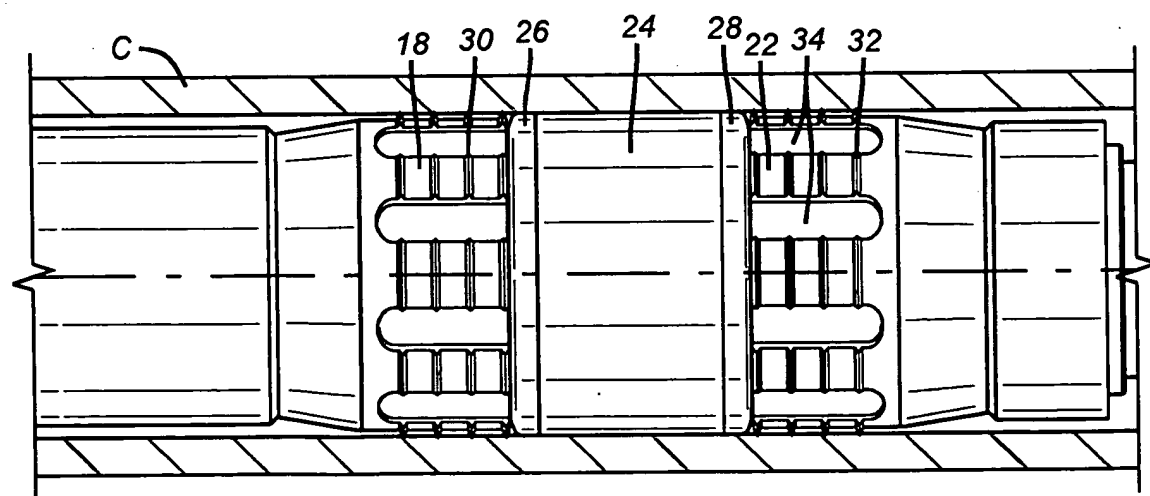


FIG. 3

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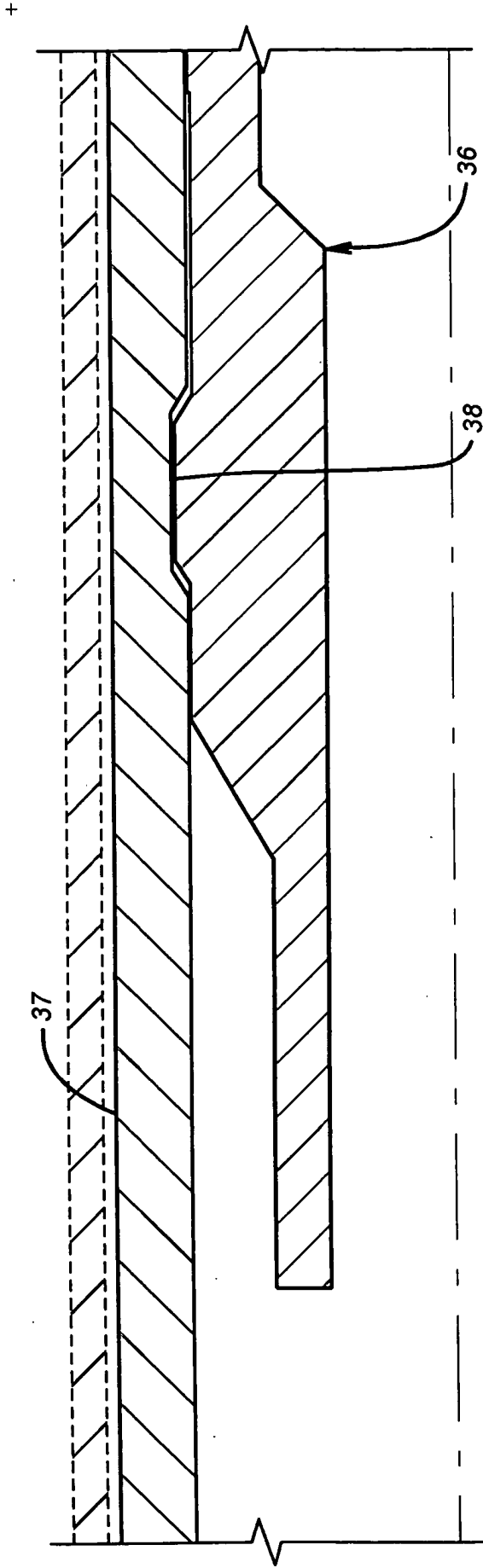


FIG. 4a

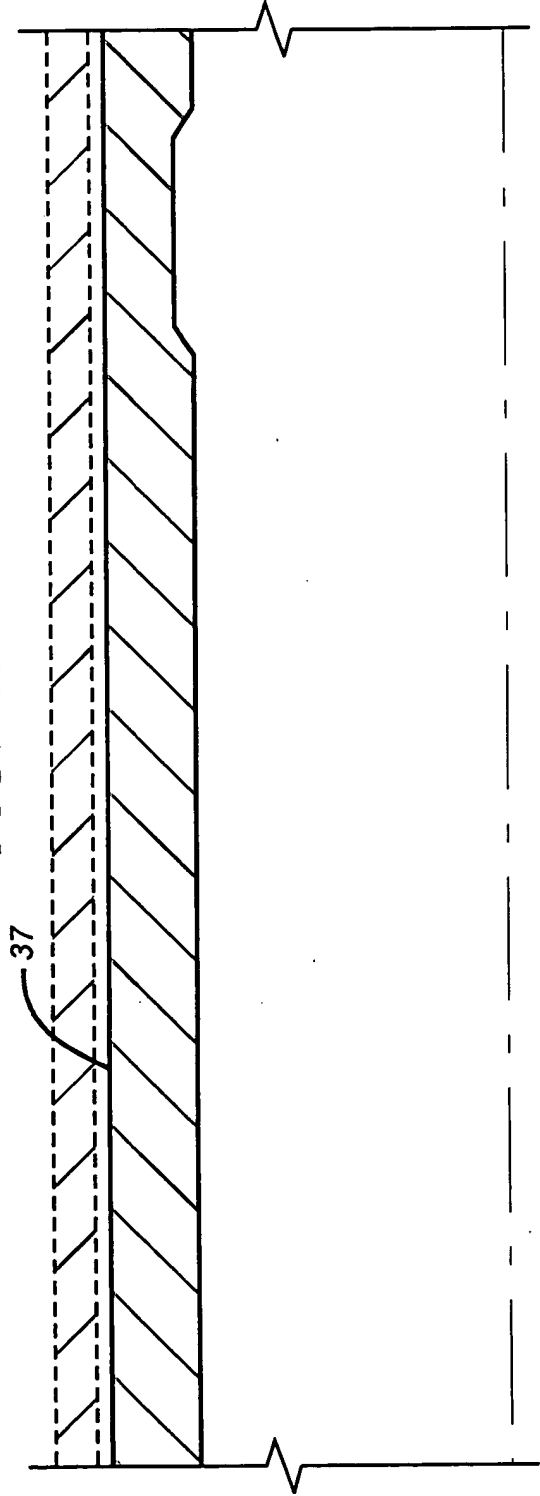


FIG. 5a

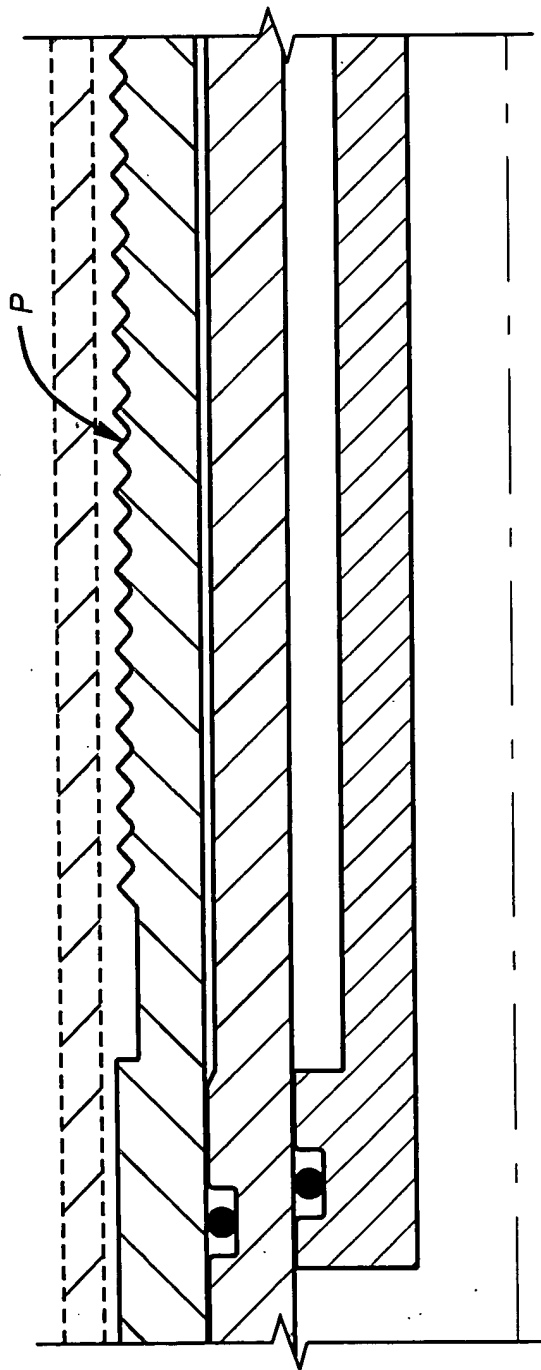


FIG. 4b

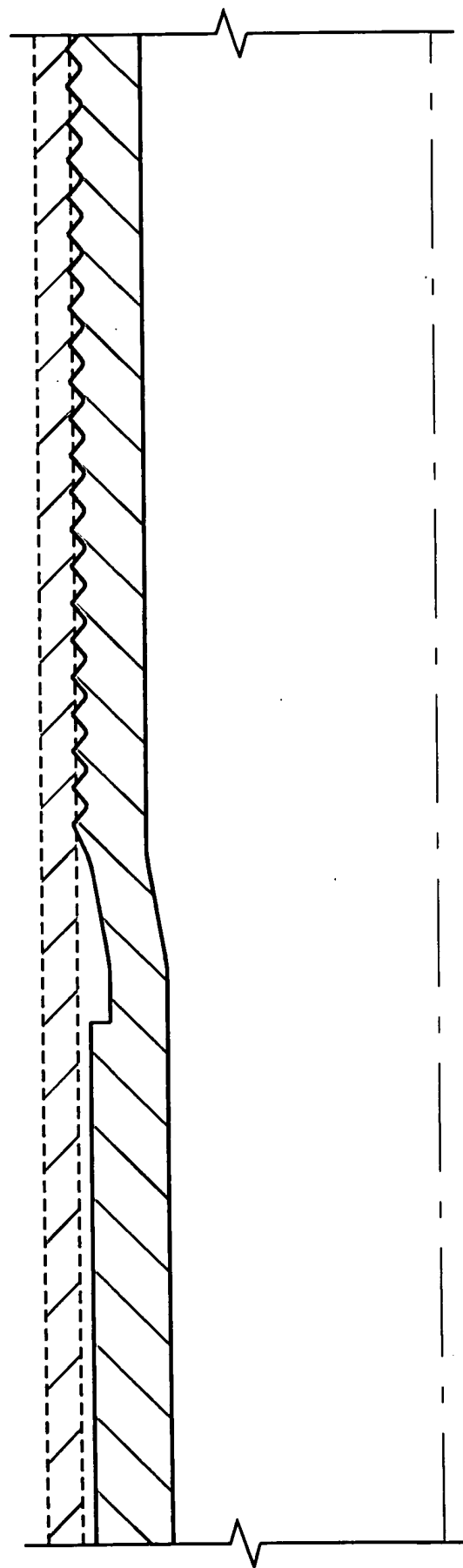


FIG. 5b

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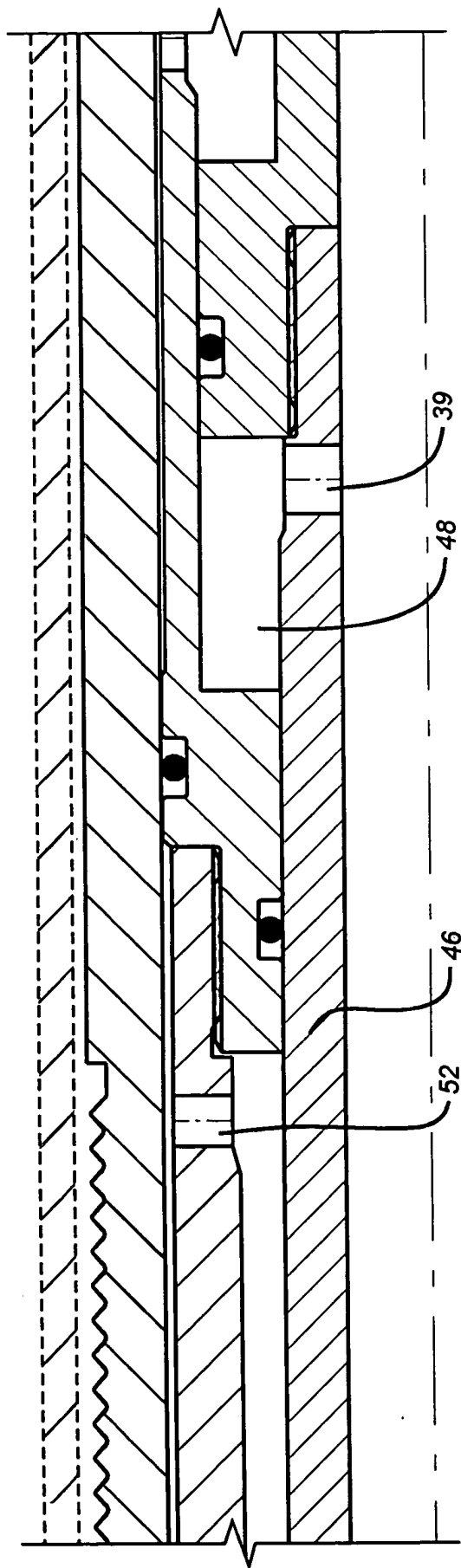


FIG. 4c

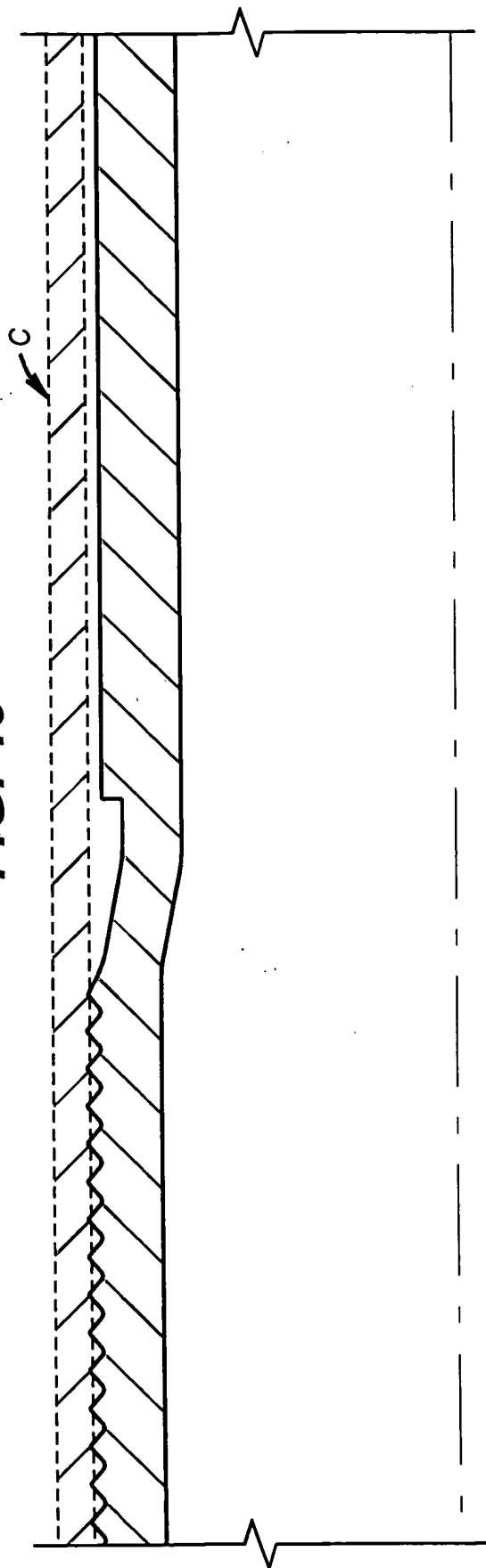


FIG. 5c

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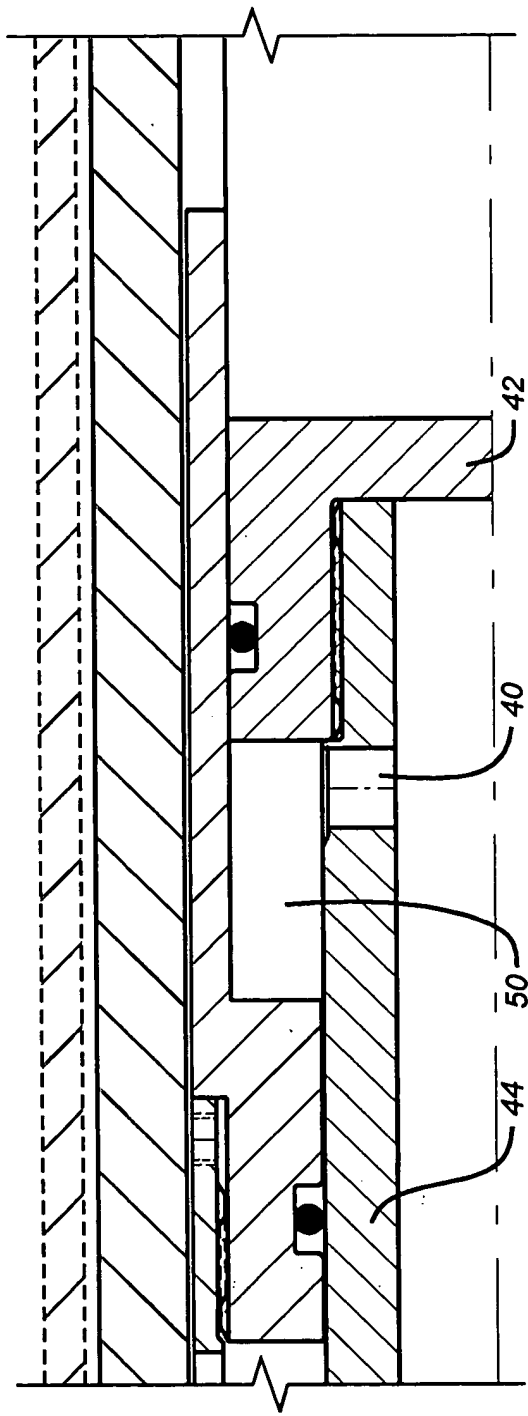


FIG. 4d

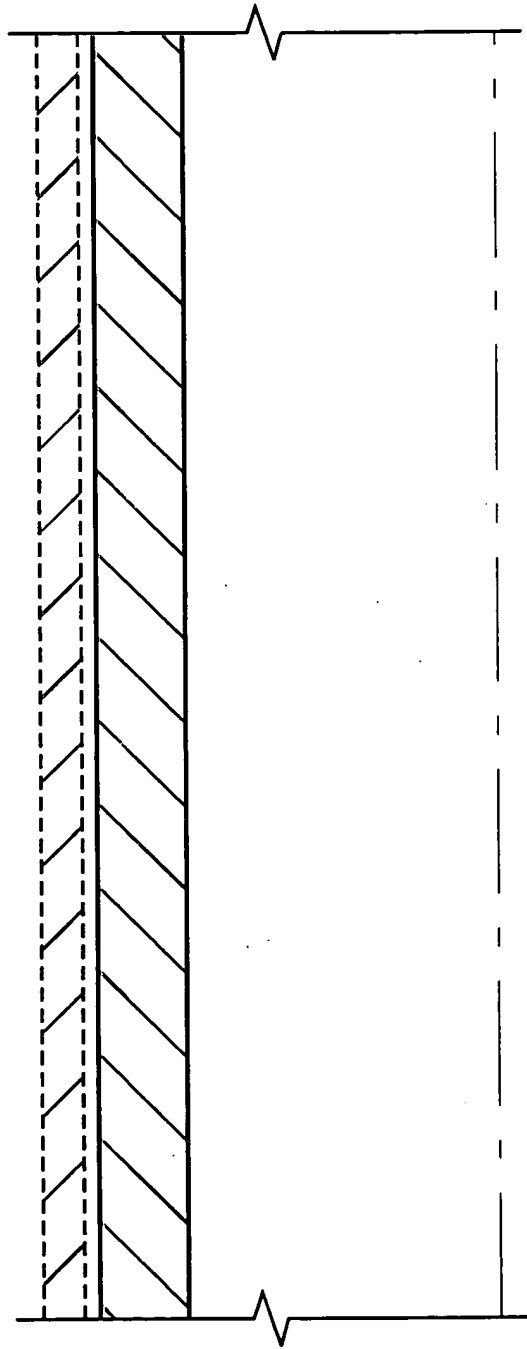


FIG. 5d

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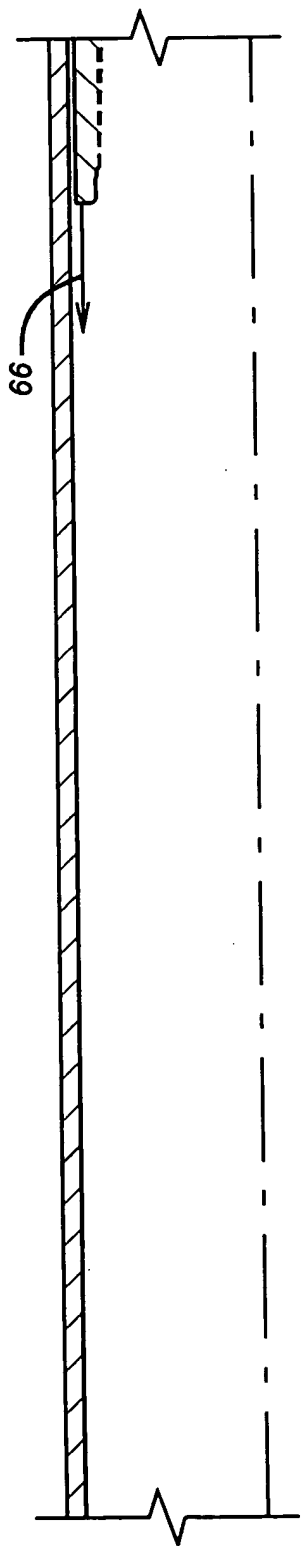


FIG. 6a

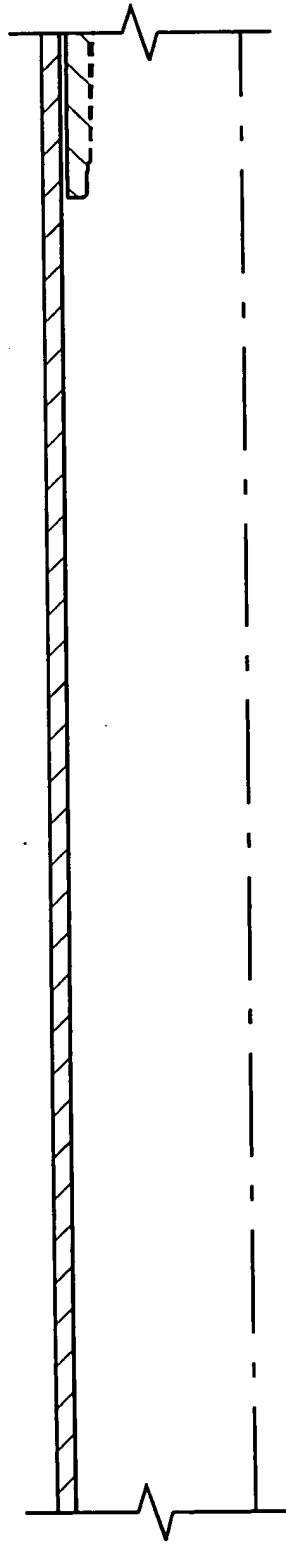


FIG. 7a

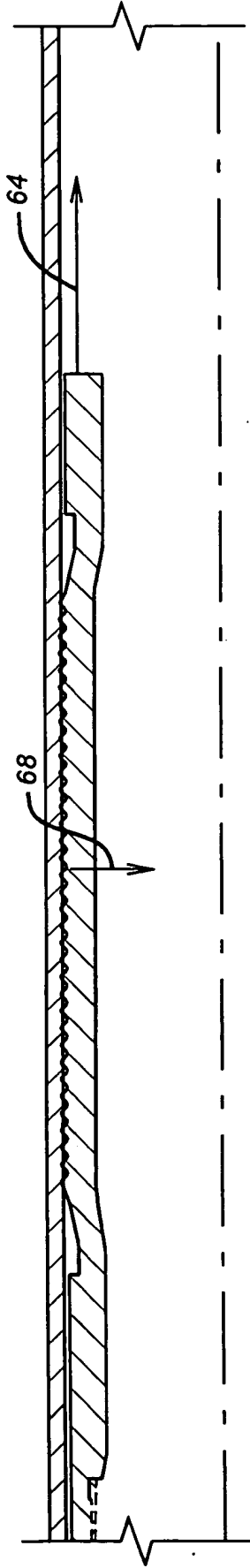


FIG. 6b

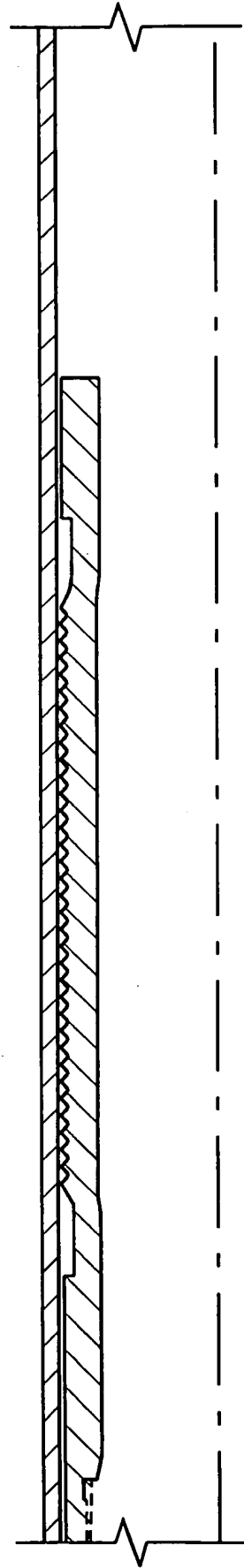


FIG. 7b

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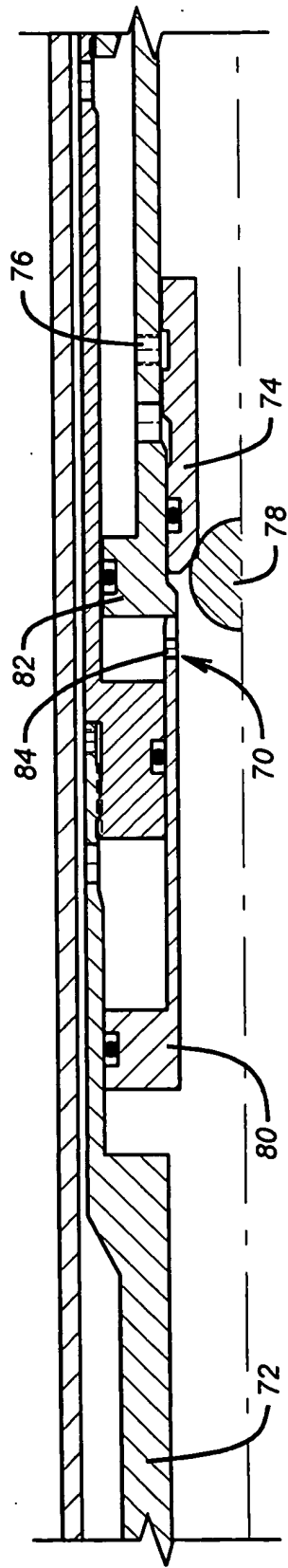


FIG. 8a

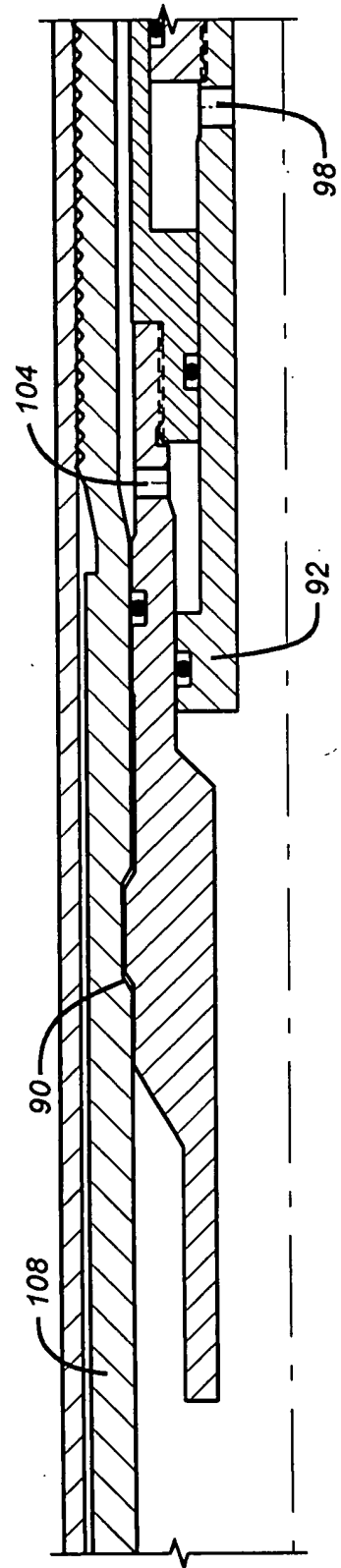


FIG. 9a

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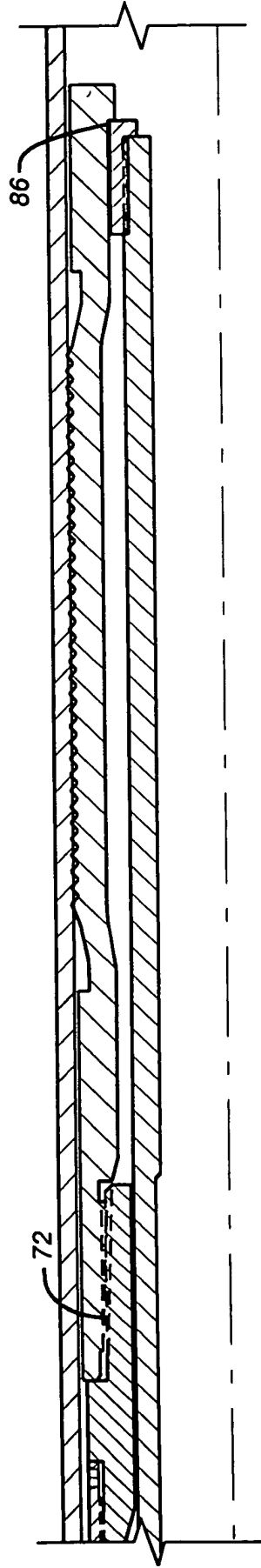


FIG. 8b

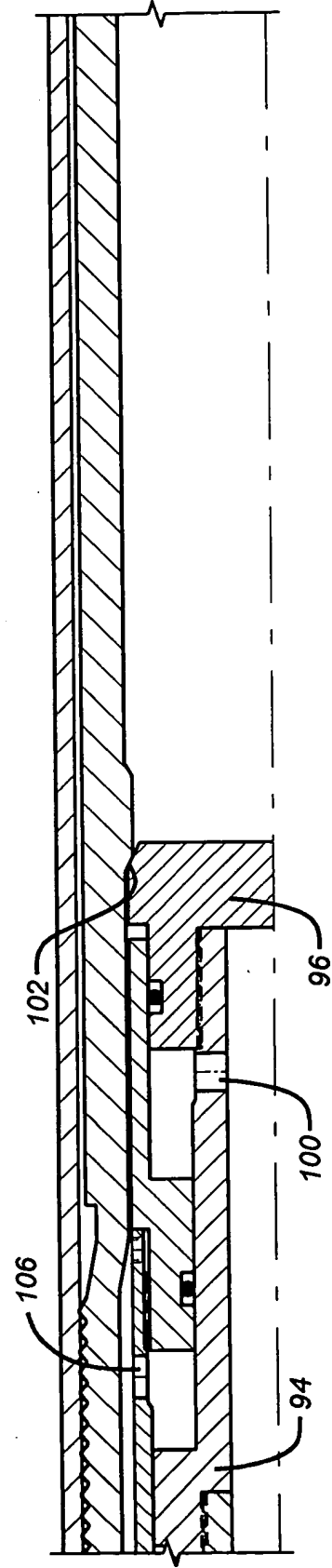


FIG. 9b

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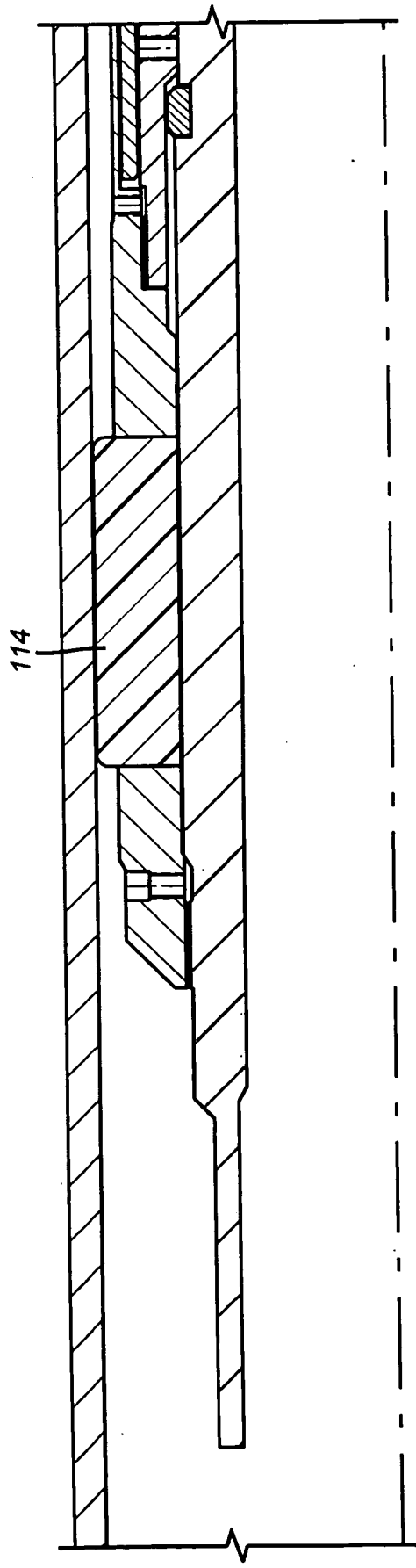


FIG. 10a

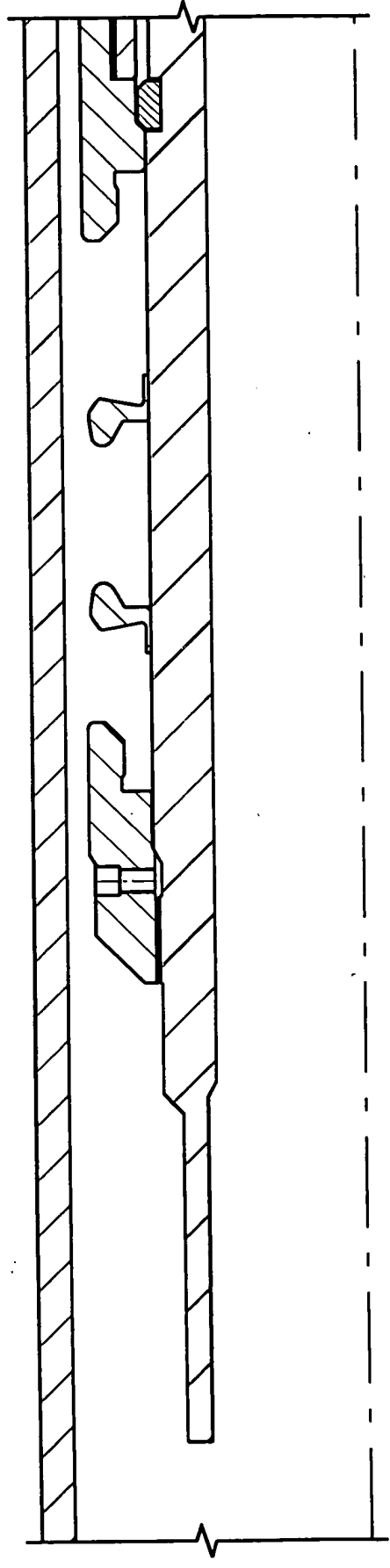


FIG. 11a

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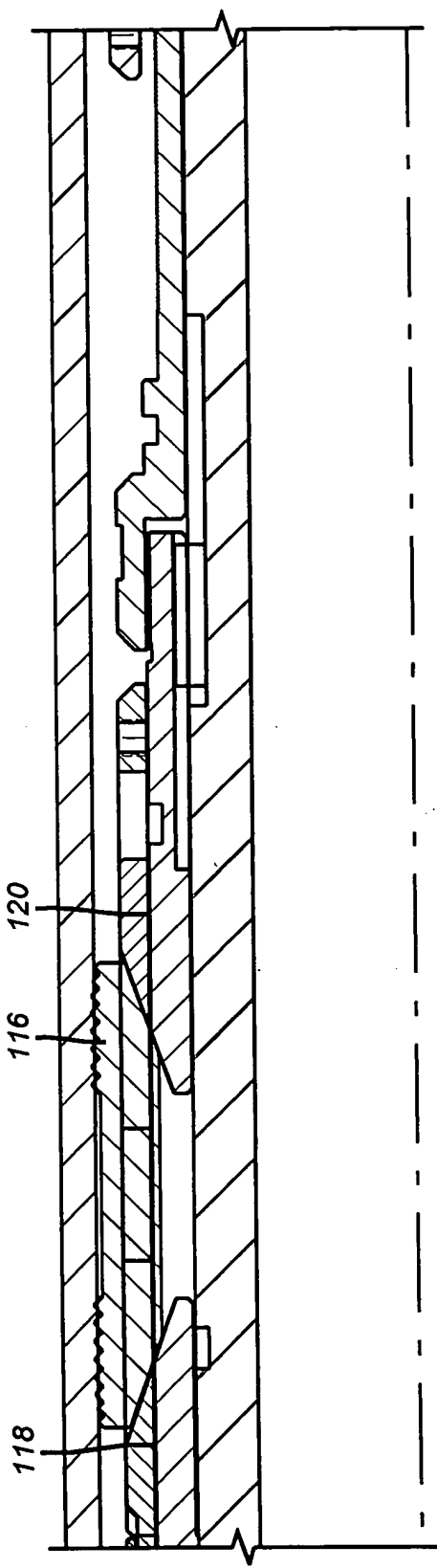


FIG. 10b

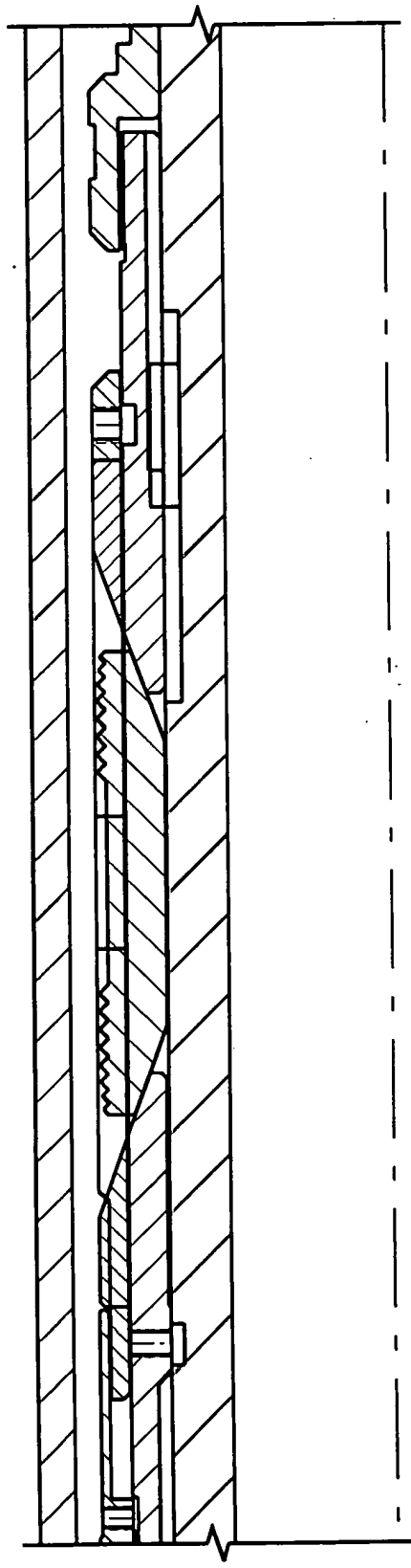


FIG. 11b

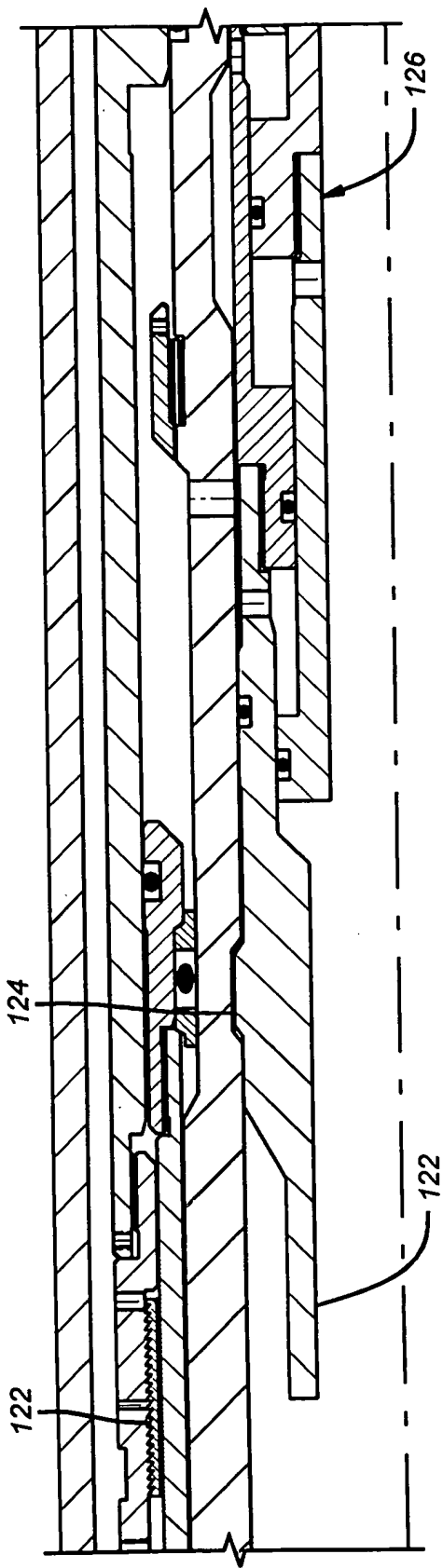


FIG. 10c

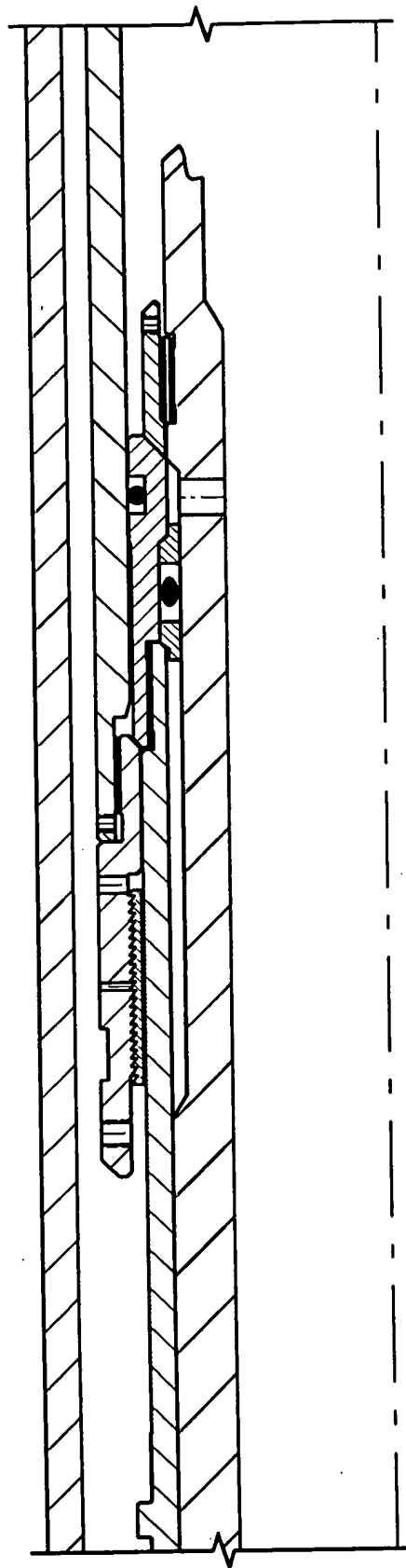


FIG. 11c

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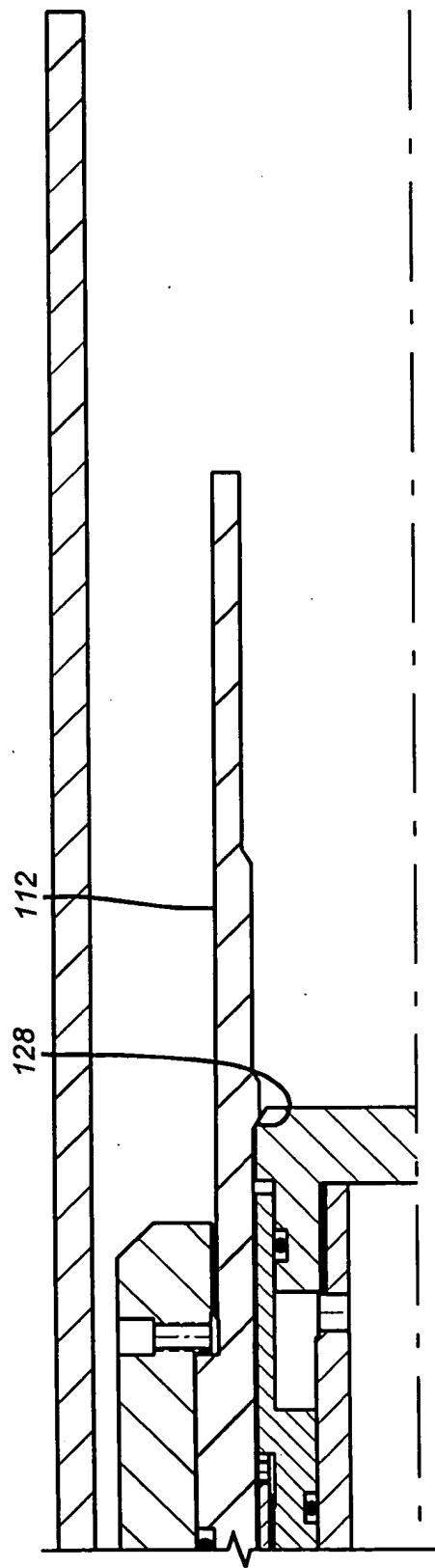


FIG. 10d

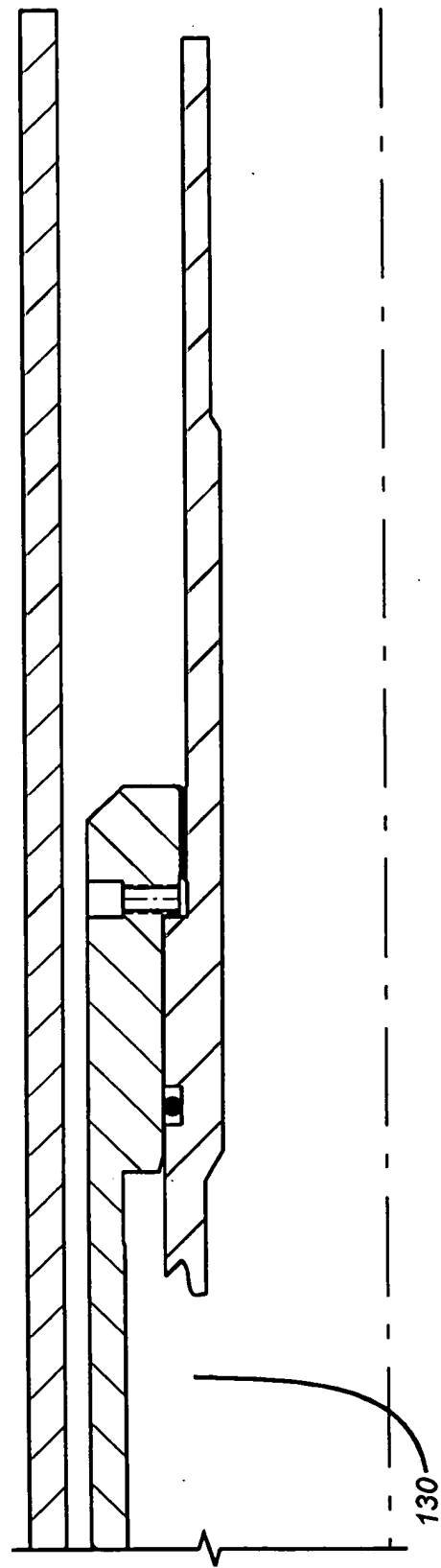


FIG. 11d

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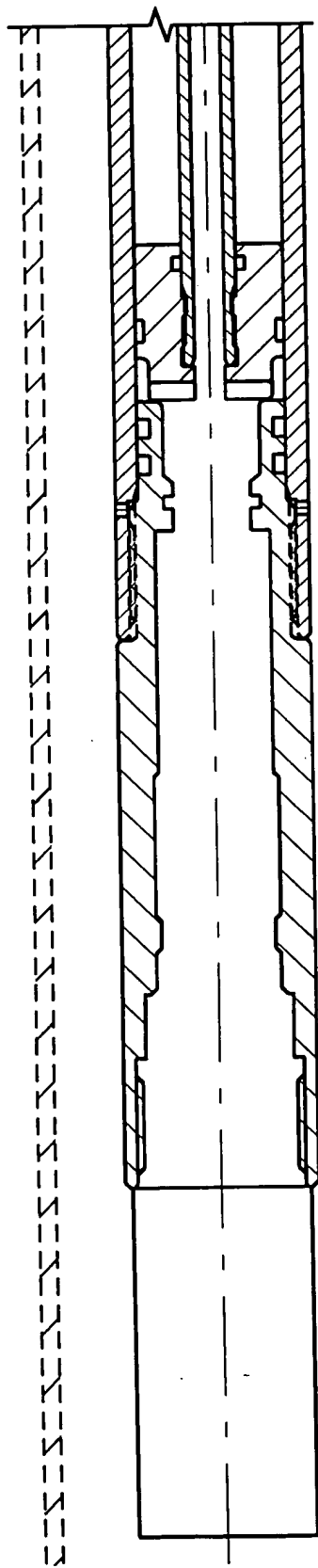


FIG. 12a

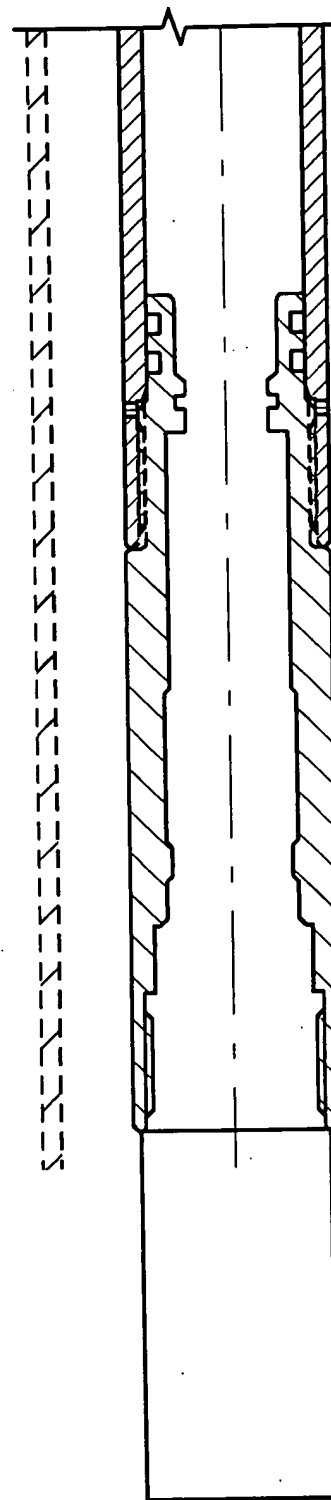


FIG. 13a

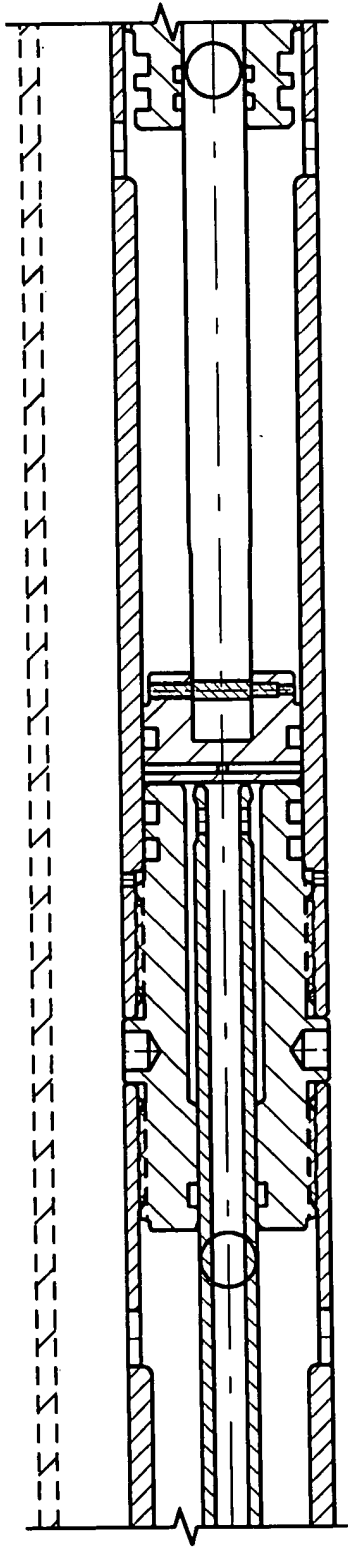


FIG. 12b

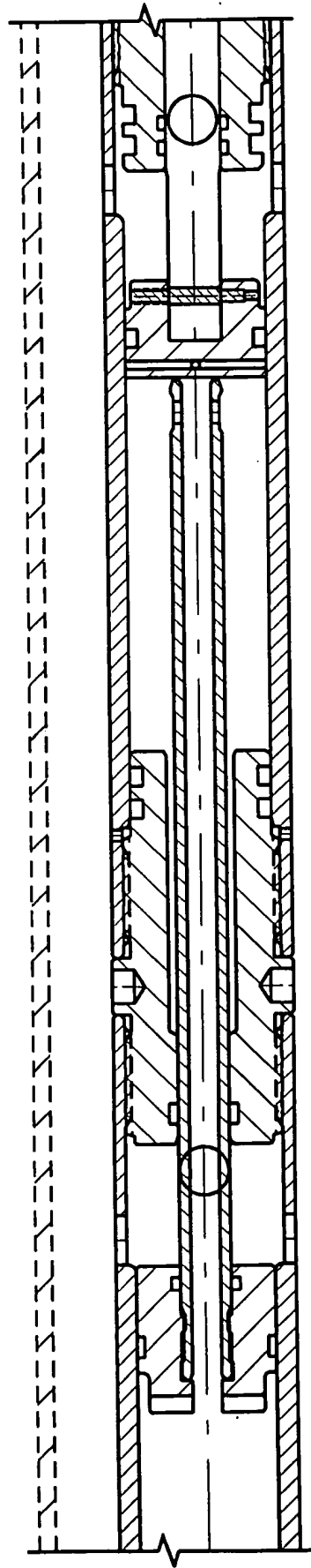


FIG. 13b

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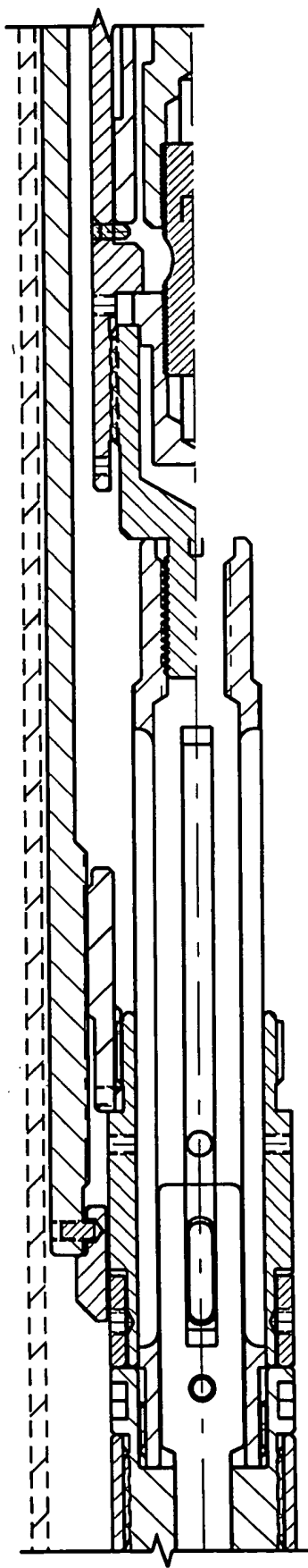


FIG. 12c

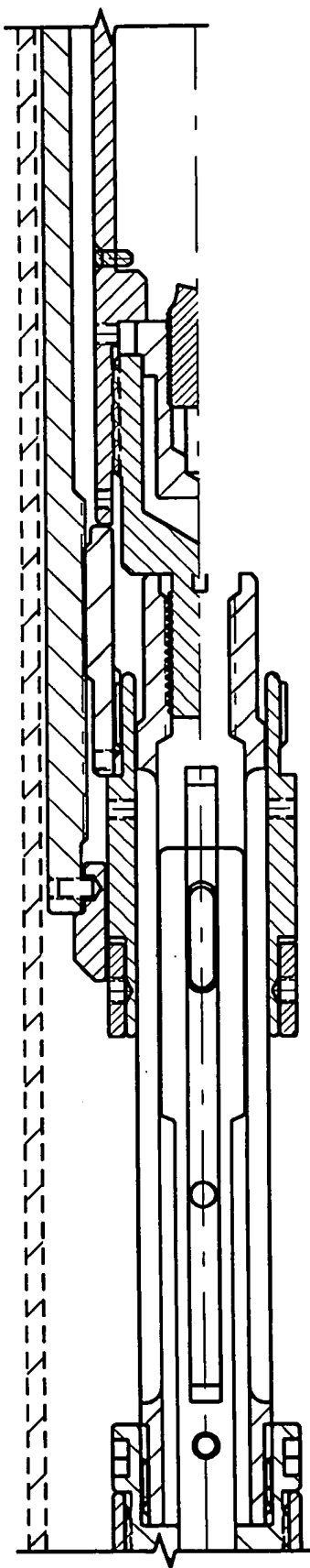


FIG. 13c

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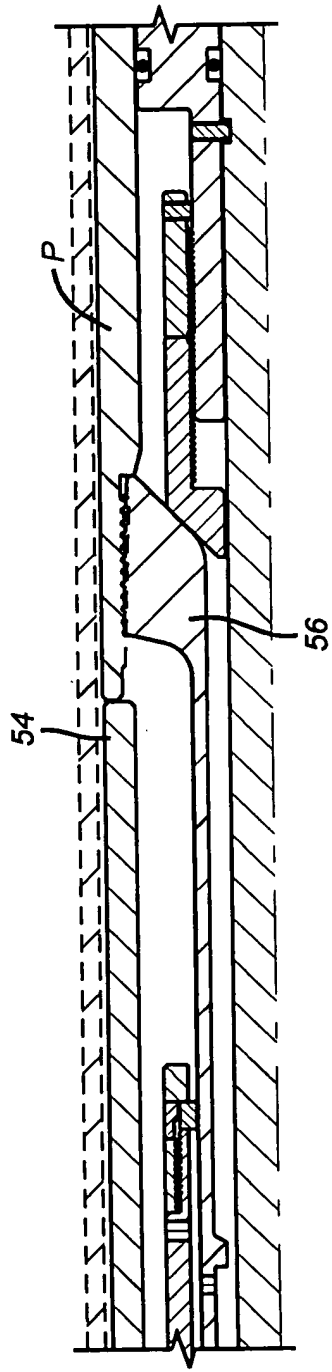


FIG. 12d

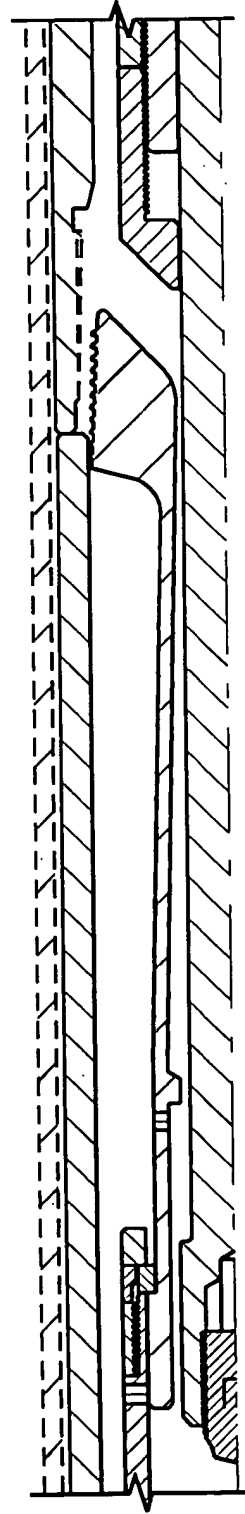


FIG. 13d

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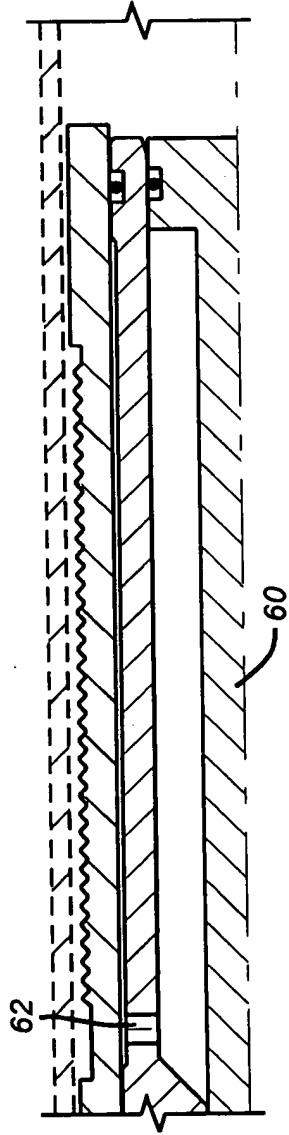


FIG. 12e

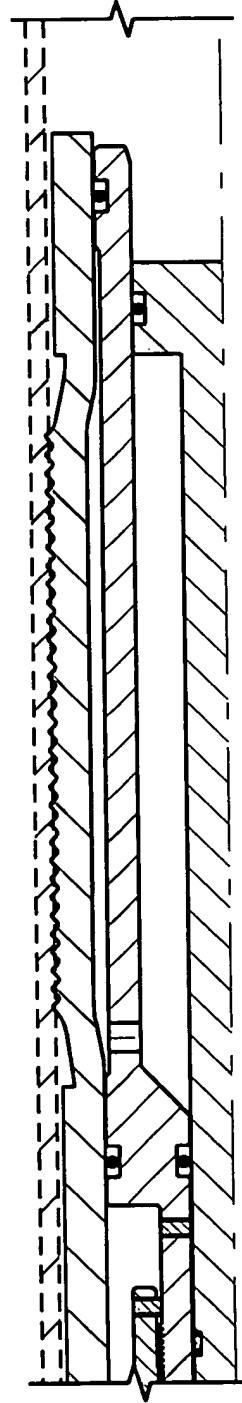
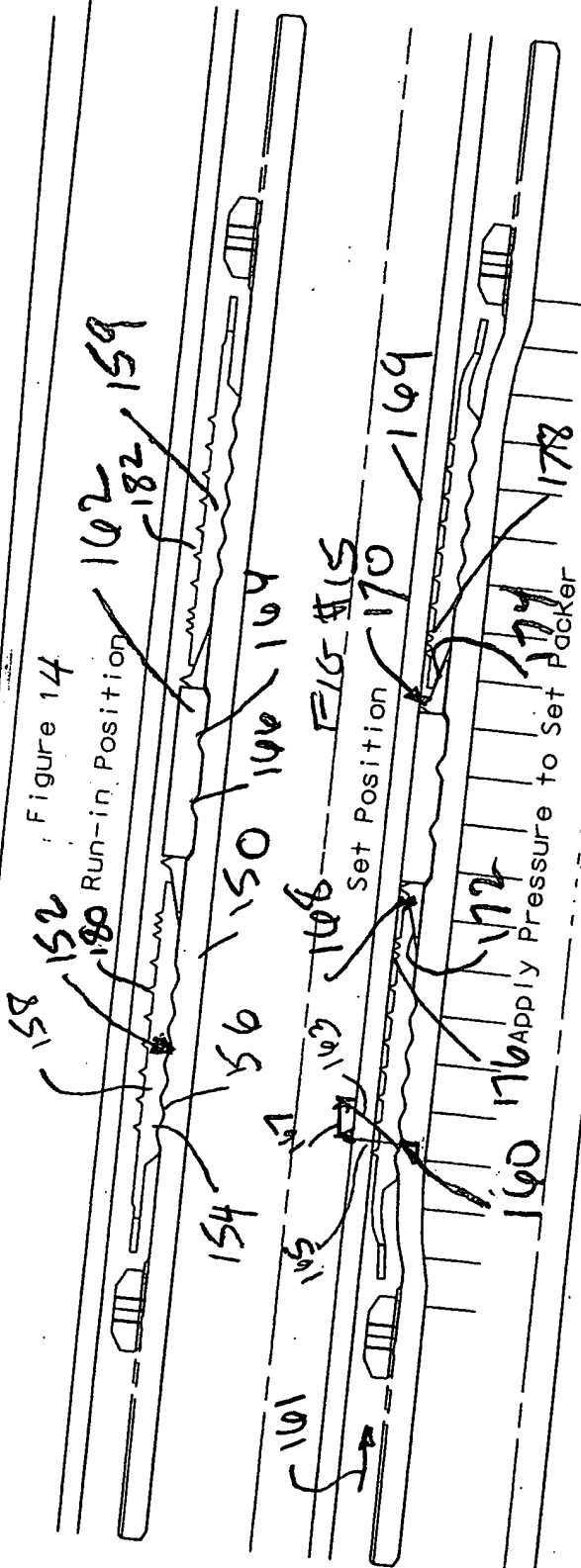


FIG. 13e

Figure 14



Expandable Packer - Set Position

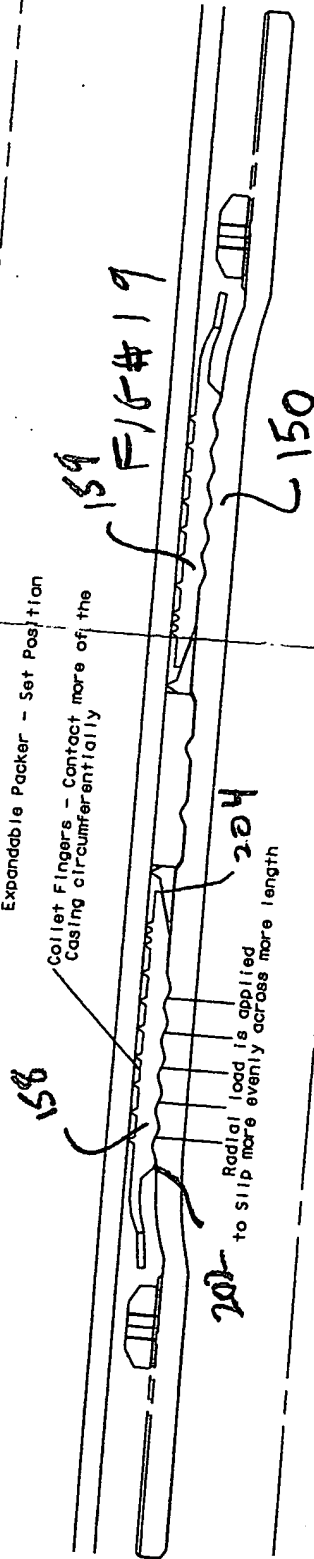


Figure 4 - Low Casing Stress

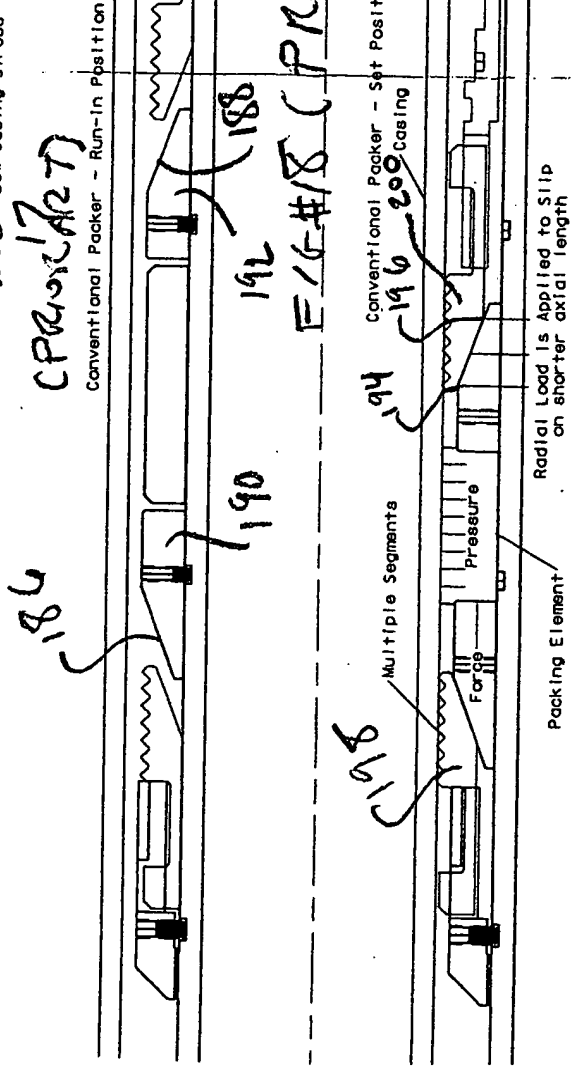
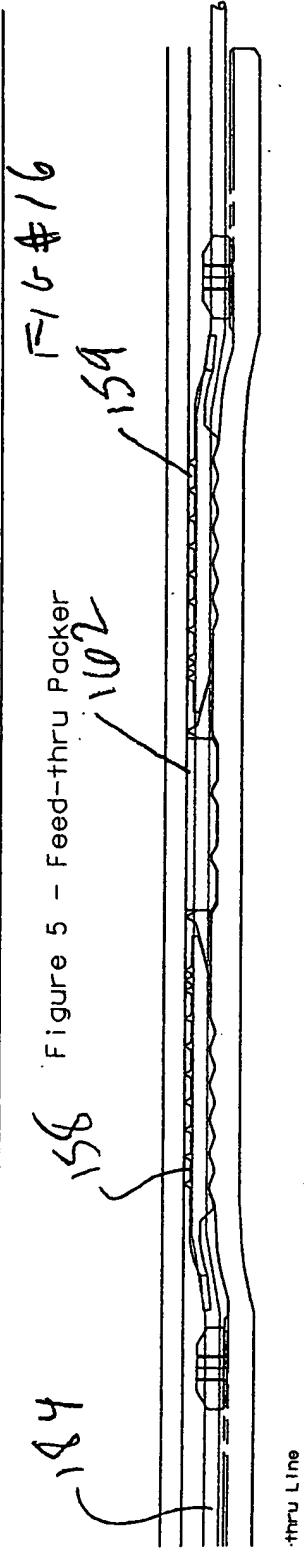


Figure 5 - Feed-thru Packer



F15-#21

F14#22

Set Packer

Drilling Plug Plug Drilled out Shear-off Bit

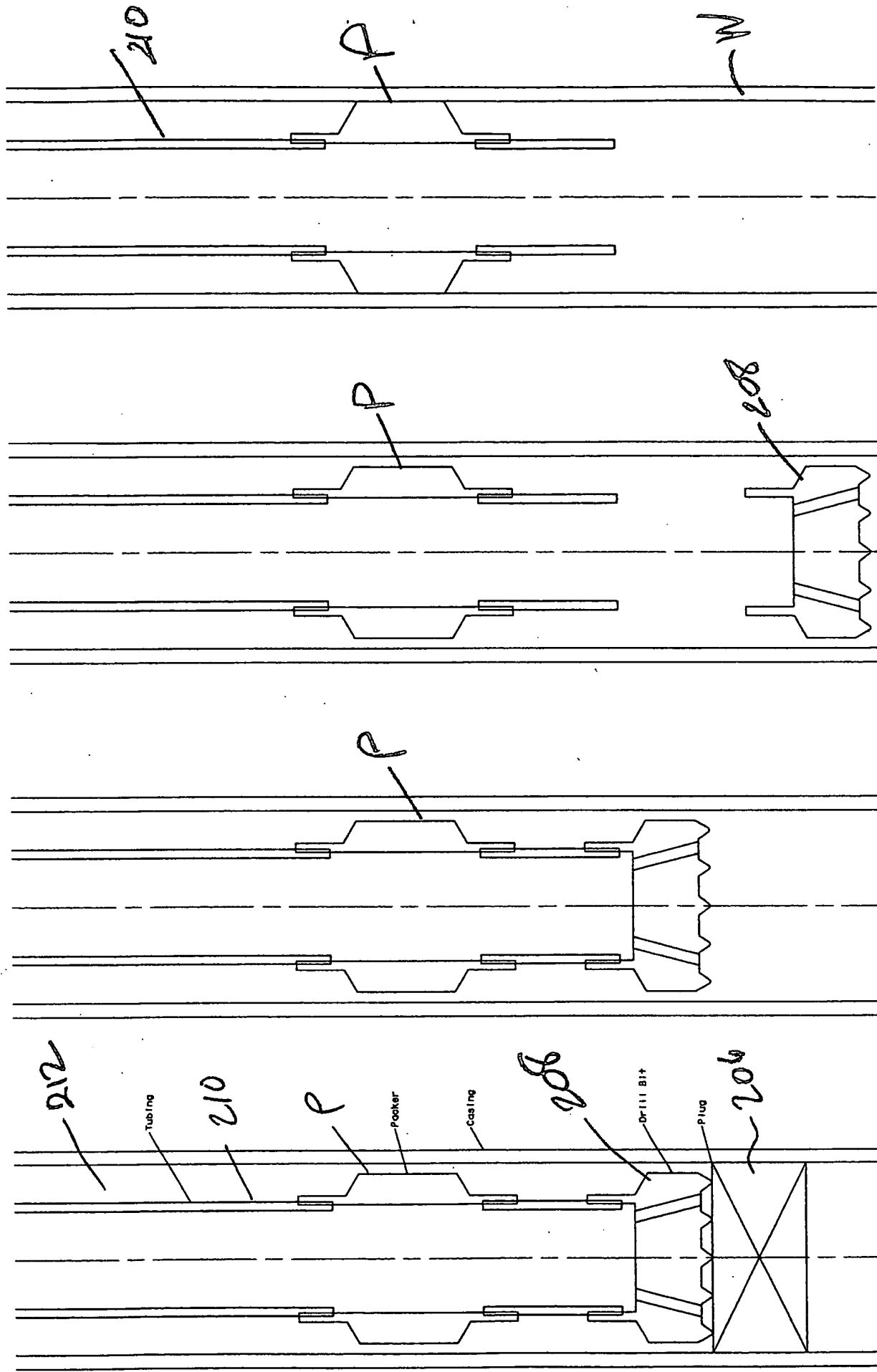


Figure 8
Liner Hanger & Liner Top
Isolation Packer

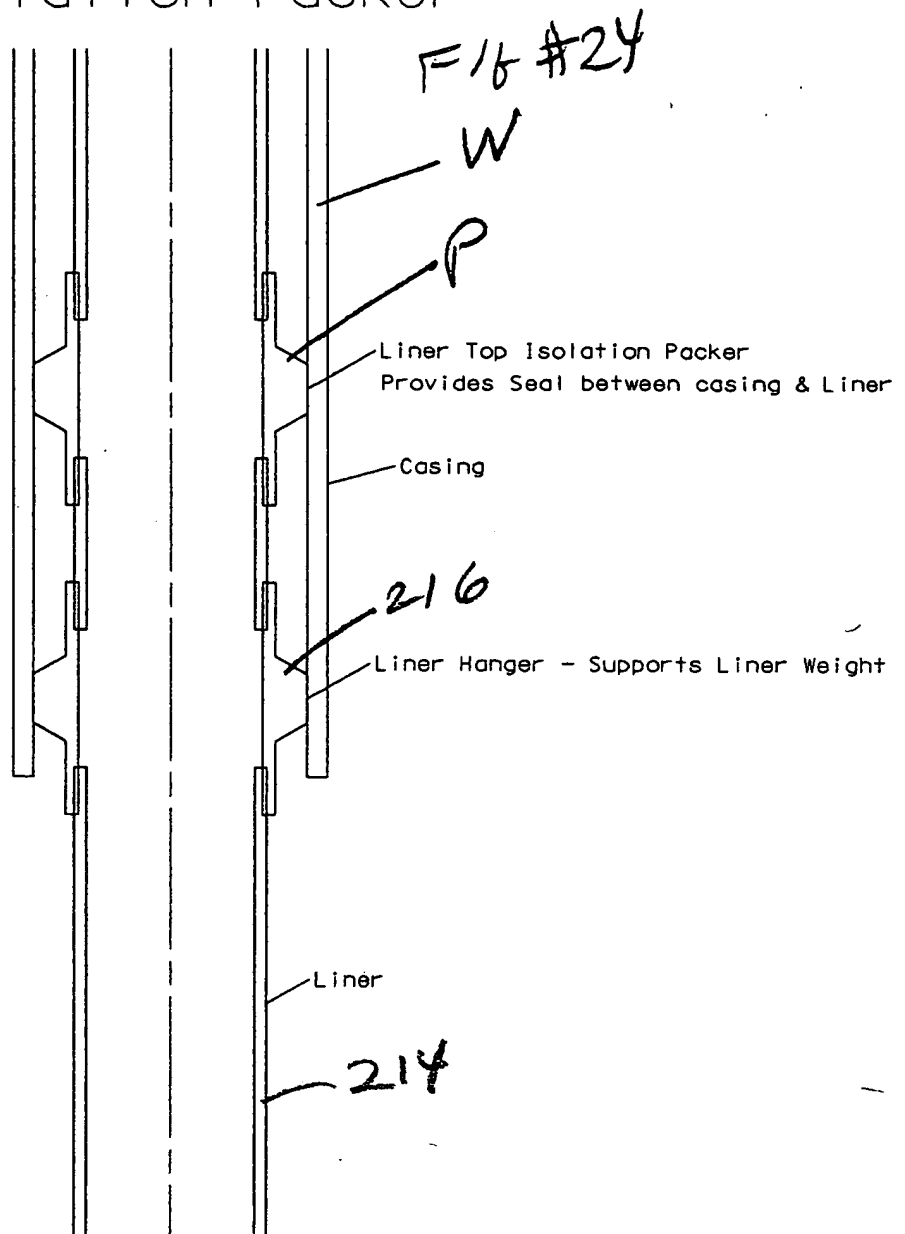


Figure 9

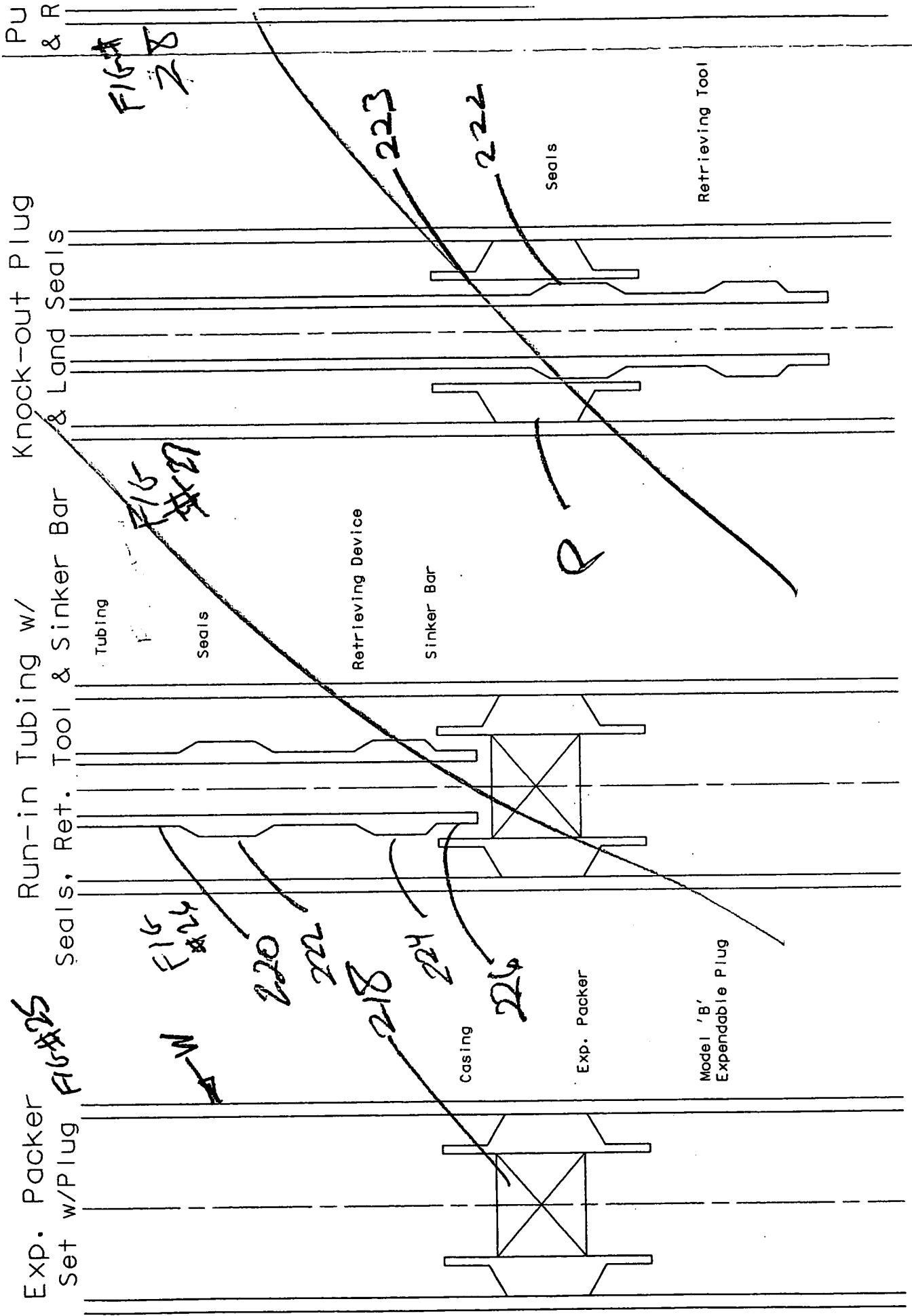


Figure 9

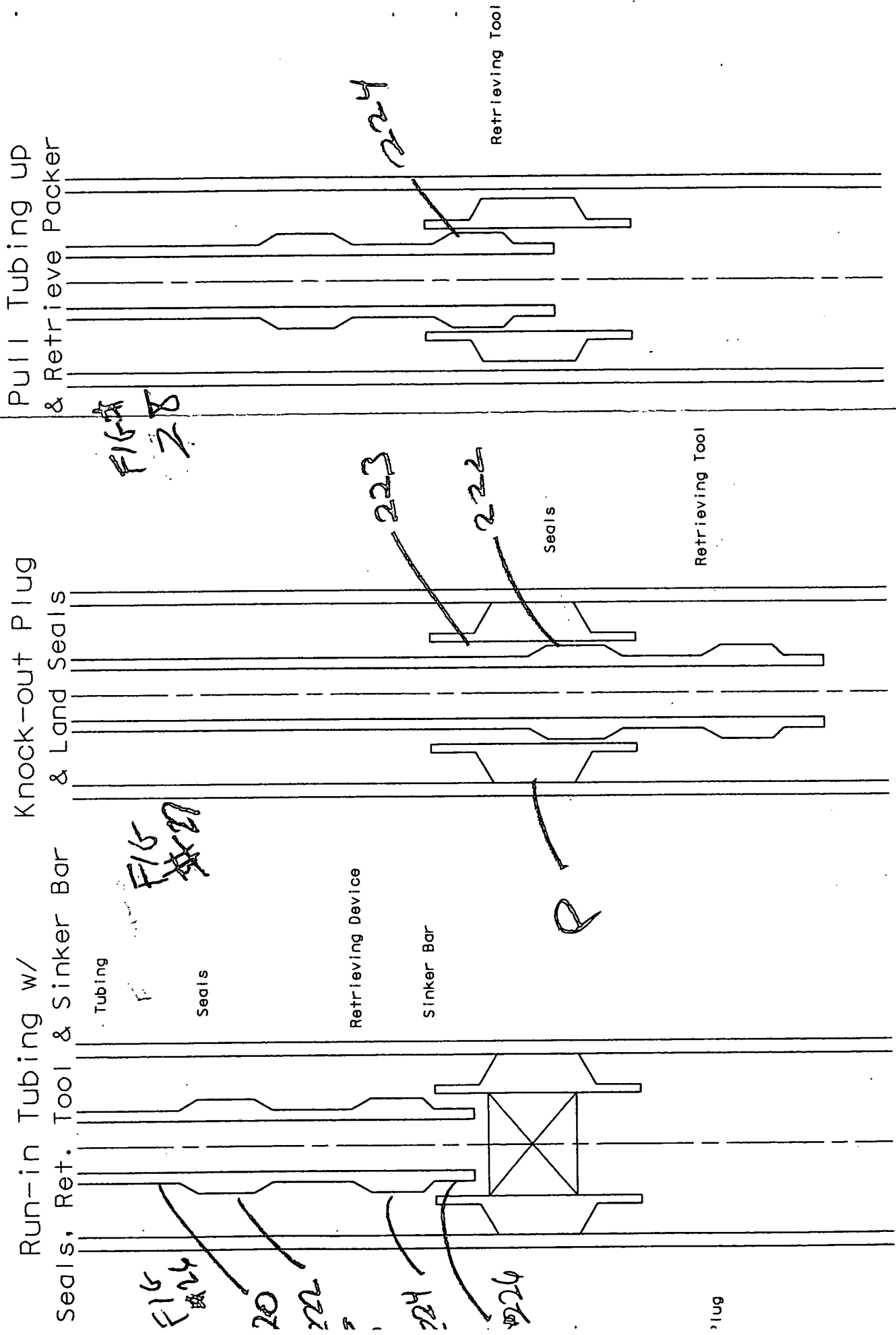


Figure 4- One Trip Hydraulic Set Packer

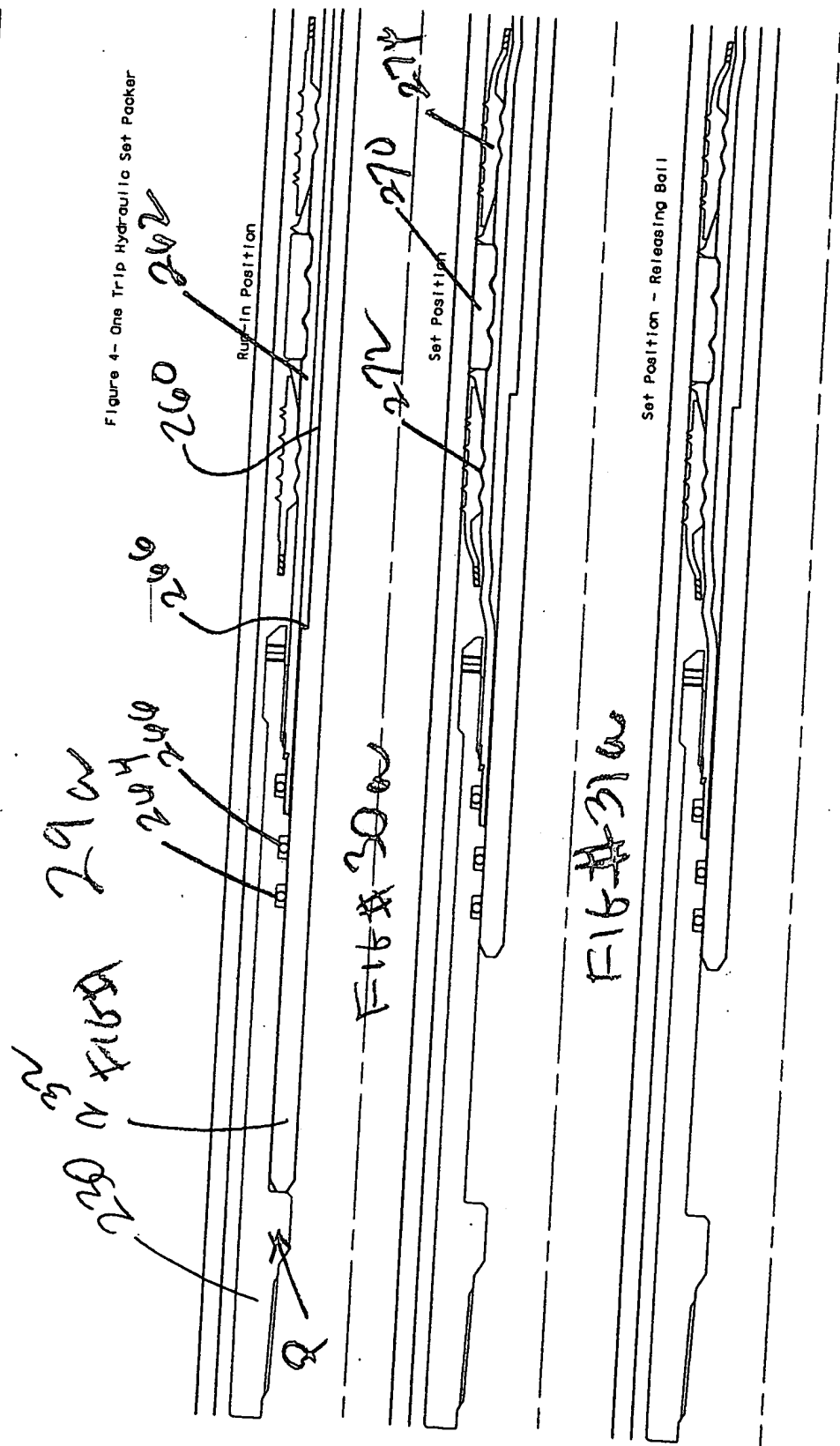


FIGURE 2001

Alternate Method of using Slick Line Plug

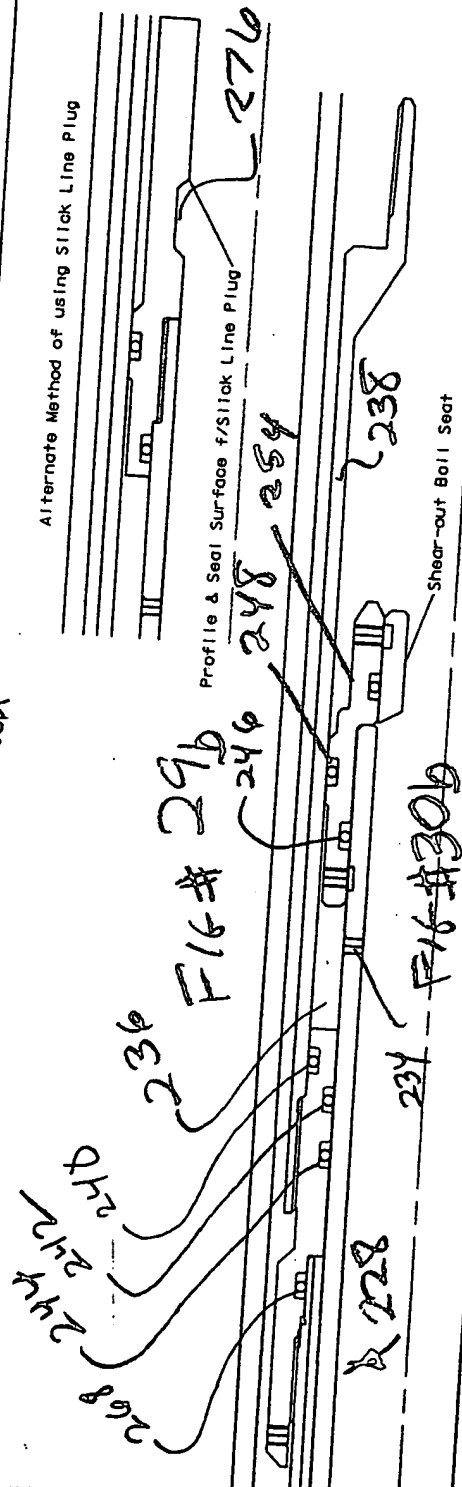
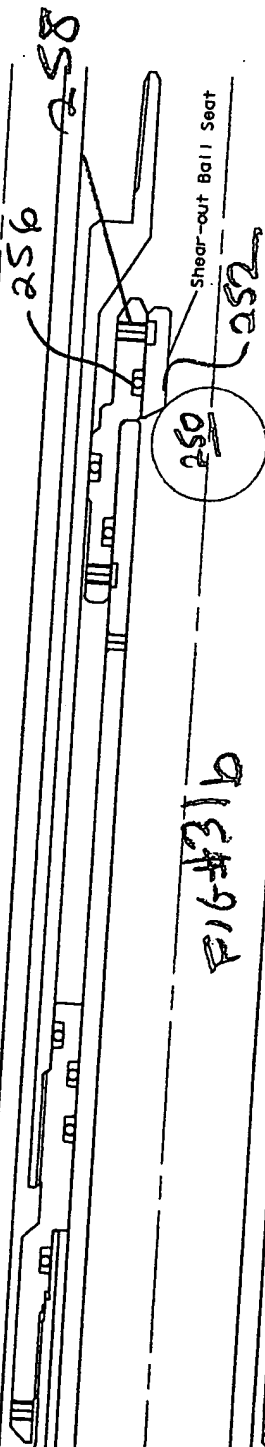
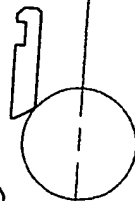


FIGURE 2002



F16 #316



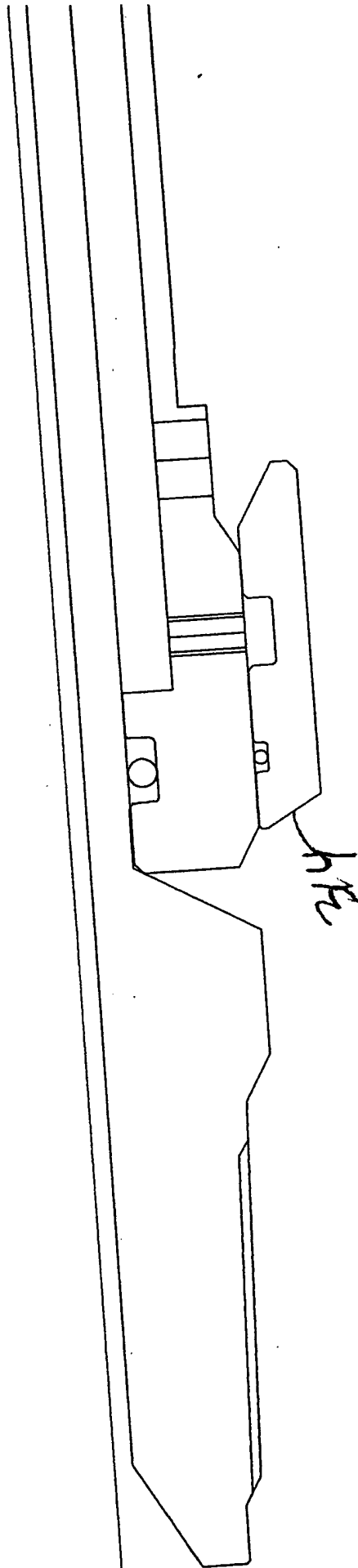


FIG 33a

FIG # 33b

2 318

320 322 318

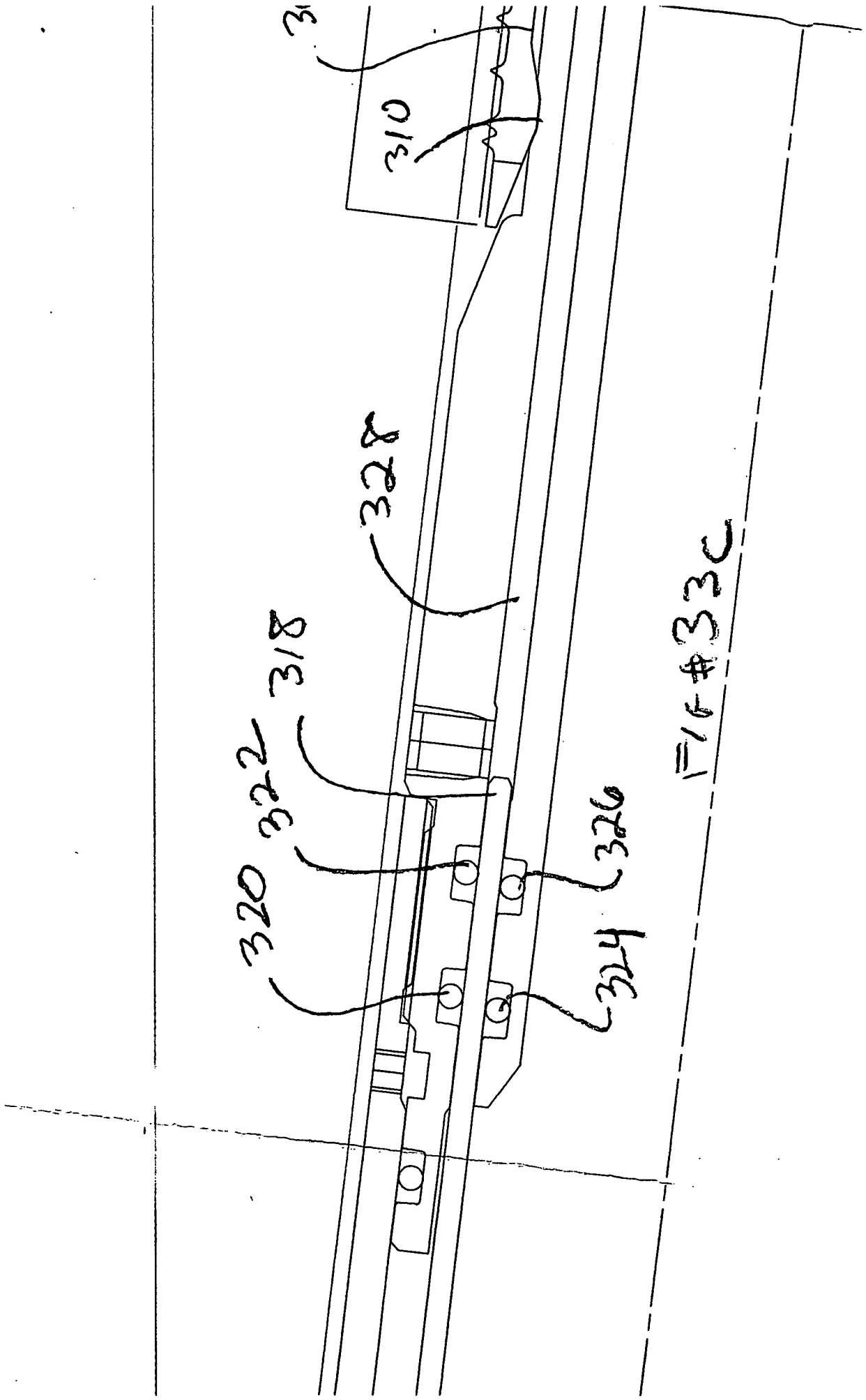
328

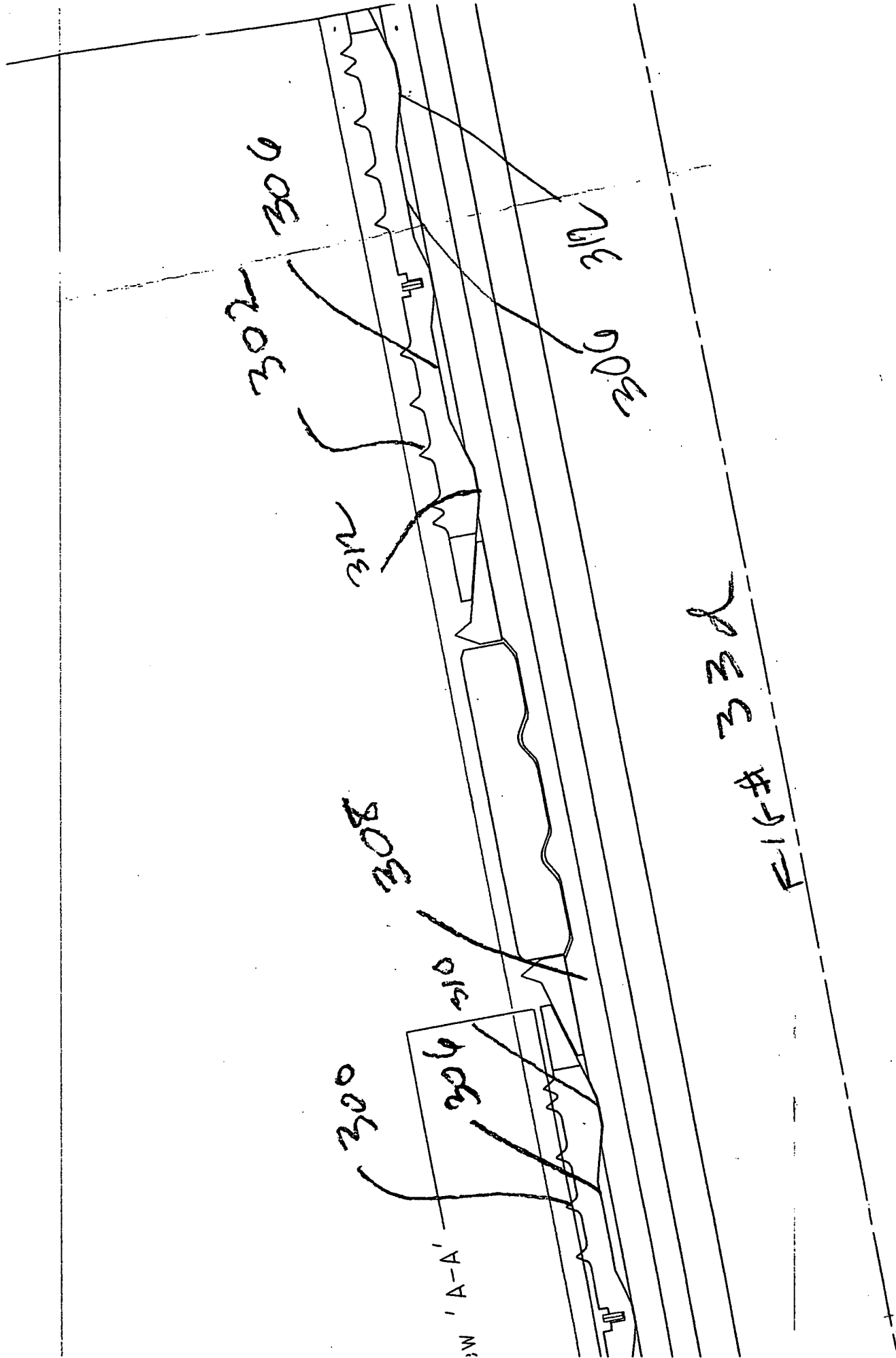
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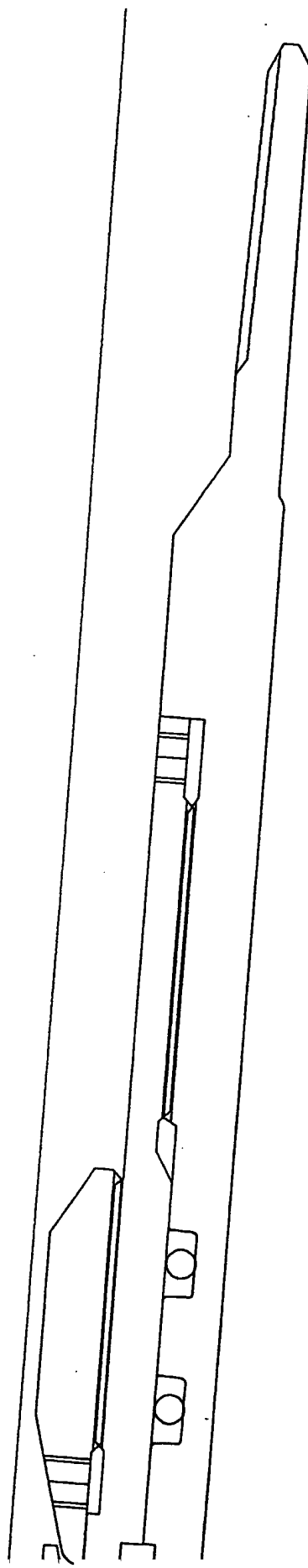
31

324 326

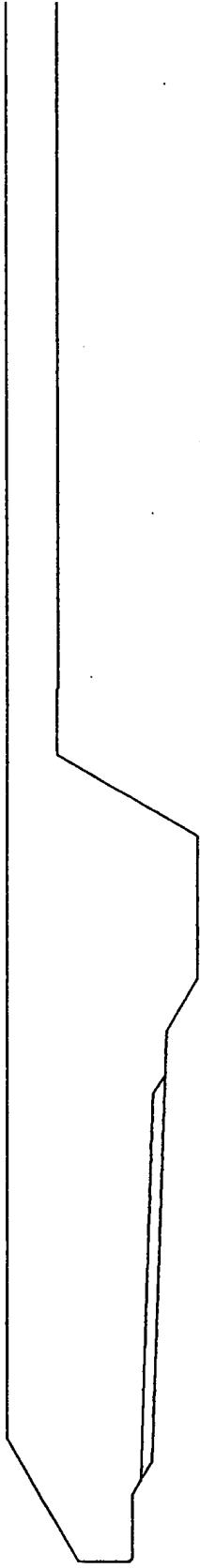
1-16 #33C



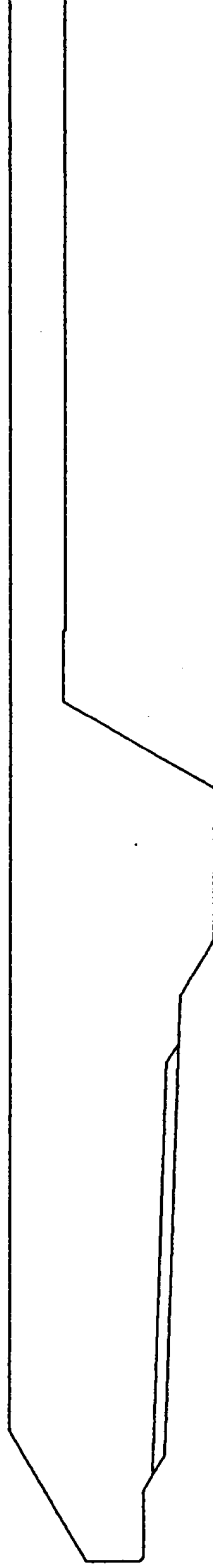




F16A33C



F16#34a



F16#35a

F16#346

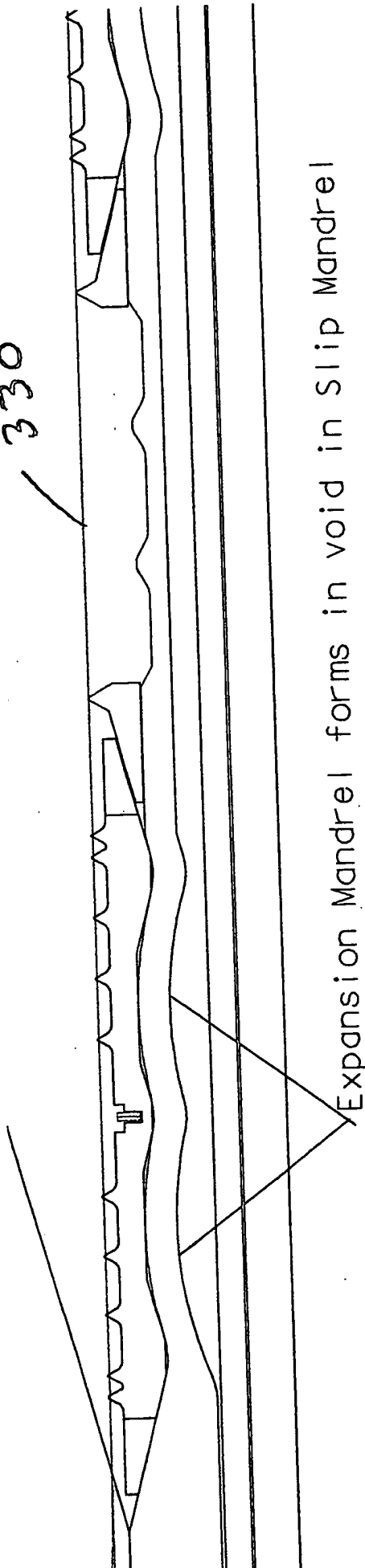
F16#356

316

~~FIG 34C~~

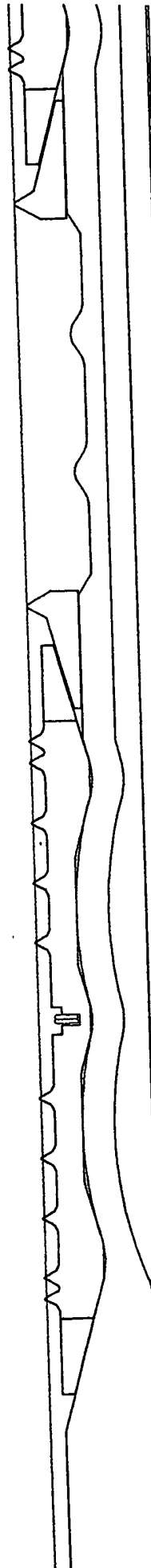
~~FIG 35C~~

330

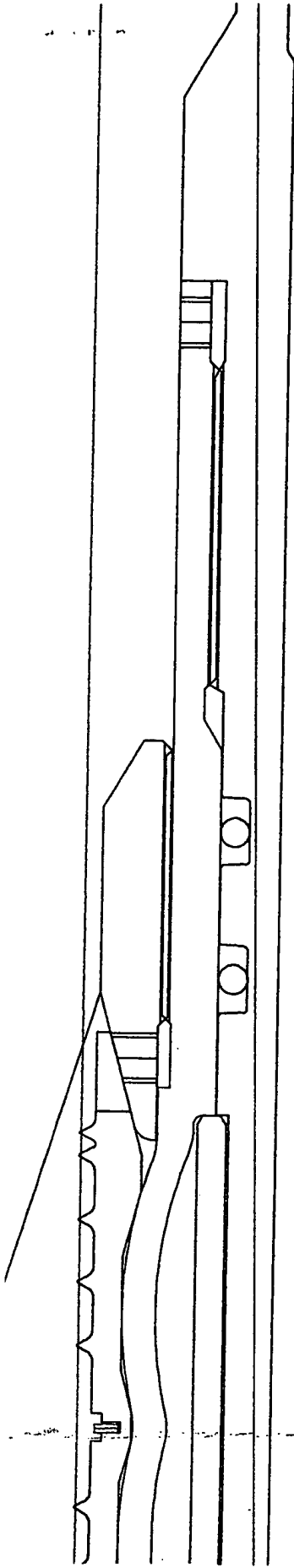


Expansion Mandrel forms in void in Slip Mandrel

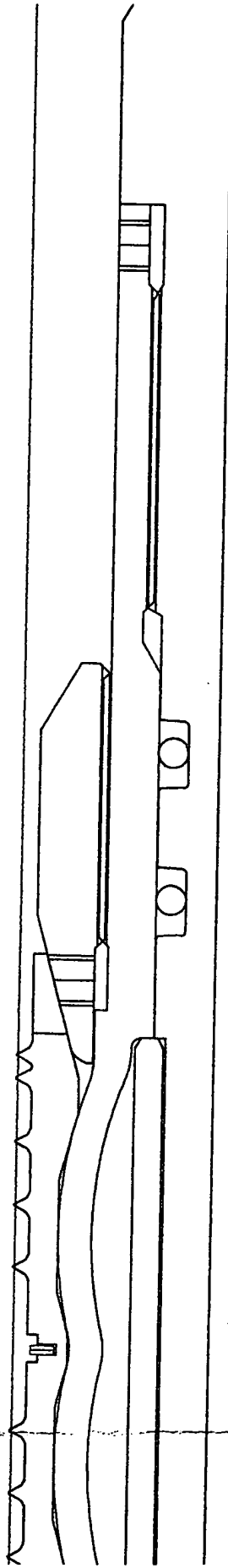
~~E16#34d~~



~~E16#35d~~



F16A B42



F16A B52

AS #38
F10#38

